

Material Safety Data Sheet

Section 1- Product Information THE TM DYKDDDDK Tag Antibody [iFluor 647], mAb, Mouse Product Name At1811-100 Substance / Preparation: Substance Ingradient Name THE TM DYKDDDDK Tag Antibody [iFluor 647], mAb, Mouse CAS No. No SarA 313 No Section 3- Hazards Identification Hell Health 2 Flammability 0 Reactivity 0 NFPA Rating 1 Health 2 Flammability 0 Oral Exposure If swallowed, wash out mouth with water provided person is conscion physician. Toral Exposure If swallowed, wash out mouth with opious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Eye Exposure In case of ochtact with eyes, lush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Flast Point File Fighting Not available Autogintion Temp Not available File Fighting Evaluate area Procedure 10 Be Followed in Case of Evacuate	09/22/201 1.0
Cat. No. A01811-100 Section 2- Composition / Information on Ingredients Substance / Preparation: Unpredient Name CAS No. No SARA 313 No Section 3- Hazards Identification HMIS Rating Health 2 Filammability 0 NFPA Rating Health 2 Filammability 0 Reactivity 0 NFPA Rating Health 2 Filammability 0 radedtoxity 0 NFPA Rating Health 2 Filammability 0 radetdoxity 0 NFPA Rating Health 2 Filammability 0 Reactivity 0 NFPA Rating Health 2 Filammability 0 Reactivity 0 NFPA Rating Neactivity 0 NFPA Rating No Section 4- First Aid Measures Filash Point Autoignition Temp Not available Xatoignition Temp Not available Not available Xatoignition Temp Not available Xatoignition Temp Not available Xatoignition Temp Not available Xatoignition Temp Not available Section 6- Accidental Release Measures Freace for al cast or Splil Procedure (s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid prepared exposure Section 7- Handling and Storage Handling User Exposure Not available Xator Temp Not	
Section 2- Composition / Information on Ingredients Substance / Preparation: Ingredient Name THE [®] DYKDDDDK Tag Antibody [iFluor 647], mAb, Mouse CAS No. No Sarka 313 No Section 3- Hazards Identification Hillis Rating Health 2 Flarmability 0 Reactivity 0 Prevail 2 Flarmability 0 Reactivity 0 Oral Exposure If swallowed, wash out mouth with water provided person is conscion physician. Section 5- Firet Fighting Measures If swallowed, wash out mouth with copious amounts of water for minaled conting and shoes. Call a physician. Eye Exposure If swallowed, wash out mouth with copious amounts of water for minaled conting and shoes. Eye Exposure In case of contact with eyes, flush with copious amounts of water for minaled. First Fighting Measures Fire Fighting Measures First Prove contrainated conting and shoes. Call a physician. Section 5- Fire Fighting Measures Not available First Fighting Media Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Water spray. Carbon dioxide,	
Substance / Preparation: Substance / Preparation: Substance / Preparation: THE TM DYKDDDDK Tag Antibody [iFluor 647], mAb, Mouse CAS No. No SARA 313 No Section 3- Hazards Identification HMIS Raing Health 2 Flammability 0 Reactivity 0 Reac	
Substance / Preparation: Substance Ingredient Name THE TM DYKDDDDK Tag Antibody [iFluor 647], mAb, Mouse CAS No. No SARA 313 No Section 3- Hazards Identification Health 2 Flammability 0 Reactivity 0	
Ingredient Name THE ^{IM} DYKDDDDK Tag Antibody (iFluor 647), mAb, Mouse CAS No. SARA 313 No Section 3- Hazards Identification HMIS Rating 2 Health 2 Flammability 0 NFPA Rating 4 Health 2 Flammability 0 or additional information on toxicity, please refer to Section 11. Section 4- First Aid Measures Oral Exposure 1 Inhalation Exposure 1 In inhaled, remove to fresh air. If breathing becomes difficult, call a physi Dermal Exposure 5 Dermal Exposure 1 In case of skin contact, flush with copious amounts of water for at least 1 Remove contaminated diothing and shoes. Call a physician. Eye Exposure 1 In case of skin contact, flush with copious amounts of water for at least 1 Remove contaminated diothing and shoes. Call a physician. Eye Exposure 1 In case of skin contact, flush with copious amounts of water for at least 1 Remove contaminated diothing and shoes. Call a physician. Eye Exposure 1 In case of skin contact, with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Flash Point Not available Xuitable 2 Vot available 2 Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Media Systelic Hazard(s) Evacuate area Free Equipment Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Section 6- Accidental Release Measures Procedure to Be Followed in Case of Evacuate area Procedure (s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid re volatilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Storage Storage at -20 °C Section 8- Exposure Controls/Presonal Protection Equipment Engineering Controls Mechanical exhaust required Personal Protective Equipment Respiratory Use respirators and components tested and approved under	
CAS No. No SARA 313 No Section 3- Hazards Identification HMIS Rating Health 2 Flammability 0 Reactivity 0 Health 2 Flammability 0 Reactivity 0 Reactivity 0 readtitional information on toxicity, please refer to Section 11. Section 4- First Aid Measures Oral Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. In case of skin contact, flush with copious amounts of water for al least Remove contaminated dothing and shoes. Call a physician. In case of contact with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Eye Exposure In case of contact with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Flash Point Not available Autoignition Temp Not available Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Protective Equipment Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid ra Ventilate area and wash spill site after material pickup is complete. Section 7- Handling dustorage Handling User Exposure Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid ra Vord inhalation. Avoid contact with eyes, skin, and clothing. Avoid pr repeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Presonal Protection Equipment Engineering Controls Mechanical exhaust required Personal Protective Equipment Respiratory Use respirators and components tested and approved under	
SARA 313 No Section 3- Hazards Identification	
HMIS Rating Health 2 Flammability 0 Reactivity 0 React	
HMIS Rating 2 Flammability 0 NFPA Rating 0 Health 2 Flammability 0 NFPA Rating 0 Health 2 Flammability 0 or additional information on toxicity, please refer to Section 11. Section 4- First Aid Measures Oral Exposure If inhalade, remove to fresh air. If breathing becomes difficult, call a physician. Inhalation Exposure If inhalade, remove to fresh air. If breathing becomes difficult, call a physician. In case of skin contact, flush with copious amounts of water for at least remove contaminated clothing and shoes. Call a physician. Eye Exposure In case of contact with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Flammability Flammability Not available Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Ernits toxic furmes under fire conditions Section 6- Accidental Release Measures Procedure to Be Followed in Case of Evacuate area <td></td>	
Health 2 Flammability 0 NFPA Rating 2 Health 2 Flammability 0 Reactivity 0 or additional information on toxicity, please refer to Section 11. Section 4- First Aid Measures Oral Exposure 1 Inhalation Exposure 1 Inhalation Exposure 1 Inhalation Exposure 1 Inhalation Exposure 1 Inhalation Exposure 1 Inhalation Exposure 1 In case of skin contact, flush with copious amounts of water for at least 1 Remove contaminated clothing and shoes. Call a physician. In case of skin contact, flush with copious amounts of water for at least 1 Remove contact with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Flash Point Not available Autoignition Temp Not available Extinguishing Media Suitable 1 Fire Fighting Media Suitable 1 Protective Equipment Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 5- Accidental Release Measures Procedure to Be Followed in Case of Leak or Spiil Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubbel Sweep up, place in a bag and hold for waste disposal. Avoid price ventilate area and wash spiil site after material pickup is complete. Section 7- Handling and Storage Handling User Exposure Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid price repeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Engineering Controls Mechanical exhaust required Personal Protective Equipment Respiratory Use respirators and components tested and approved under in Section 8- Exposure Storage at -20 °C	
Flammability 0 Reactivity 0 NFPA Rating 1 Health 2 Flammability 0 Reactivity 0 or additional information on toxicity, please refer to Section 11. Section 4- First Aid Measures Oral Exposure If swallowed, wash out mouth with water provided person is conscion physician. Inhalation Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a physi Dermal Exposure In case of skin contact, flush with copious amounts of water for at least 'a remove contaminated clothing and shoes. Eye Exposure In case of contact with eyes, flush with copious amounts of water for at least 'a remove contaminated clothing and shoes. Section 5- Fire Fighting Measures Flash Point Autoignition Temp Not available Flammability Not available Exitibulty Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Protective Equipment Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Procedure to Be Followed in Case of evaluate area	
Reactivity 0 NFPA Rating 2 Healtn 2 Flammability 0 or additional information on toxicity, please refer to Section 11. Section 4- First Aid Measures Oral Exposure If swallowed, wash out mouth with water provided person is conscion physician. Inhalation Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. Inhalation Exposure In case of contact with eyes, flush with copious amounts of water for at least - Remove contaminated clothing and shoes. Call a physician. Eye Exposure In case of contact with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Flash Point Kutoignition Temp Not available Yatitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic fure and wash spill site after material pickup is complete. Section 6- Accidental Release Measures Fracedure(s) of Personal Precaution(s) Methods for Cleaning Up Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste dis	
NFPA Rating Healtin 2 Flammability 0 radditional information on toxicity, please refer to Section 11. Section 4- First Aid Measures Oral Exposure If swallowed, wash out mouth with water provided person is conscion physician. Section 4- First Aid Measures Oral Exposure If swallowed, wash out mouth with water provided person is conscion physician. Inhalation Exposure If swallowed, wash out mouth with water provided person is conscion physician. Eye Exposure In case of skin contact, flush with copious amounts of water for at least ' Remove contaminated clothing and shoes. Call a physician. Section 5- Fire Fighting Measures Flash Point Not available Autoignition Temp Not available Exitiguishing Media Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Protective Equipment Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Evacuate area Leak or Spill Procedure to Be Followed in Case of Berton 5- Clean and Precaution(s) Section 6- Accidental Release Measures Procedure to Be Followed in Case of Methods for Cleaning Up Sware respirator, chemical safety goggles, rubber boots, and heavy rubber Methods for Cleaning Up Sware spirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid rubentiate area and wash spill site after material pickup is complete. Section 7- Handling Addia User Exposure Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid pri repeated exposure. Storage Storage A 20 °C Section 8- Exposure Controls/Personal Protection Equipment Engineering Controls Mechanical exhaust required Personal Protective Equipment Respiratory Use respirators and components tested and approved under Seption Personal Protective Indupersonal proved under Seption 8- Exposure Avoid inneal exhaust required Personal Protective Equipment Respiratory User Septions and components tested and approved under	
Health 2 Flammability 0 Reactivity 0 or additional information on toxicity, please refer to Section 11. Section 4- First Aid Measures Oral Exposure If swallowed, wash out mouth with water provided person is conscion physician. Inhalation Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. Incase of contact with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Eye Exposure In case of contact with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Flash Point Fire Fighting Not available Kutoginition Temp Not available Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic furmes under fire conditions Section 6- Accidental Release Measures Evacuate area Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid ra Ventilate area and wash spill site	
Flammability 0 Reactivity 0 or additional information on toxicity, please refer to Section 11. Section 4- First Aid Measures Oral Exposure If swallowed, wash out mouth with water provided person is conscious physician. Inhalation Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. Eye Exposure In case of skin contact, flush with copious amounts of water for at least 7. Eye Exposure In case of contact with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Flash Point Flash Point Not available Autoignition Temp Not available Fire Fighting Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Protective Equipment Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic furmes under fire conditions Section 6- Accidental Release Measures Evacuate area Leak or Spill Procedure to Be Followed in Case of Leak or Spill Evacuate area Leak or Spill Wear respirator, chemical s	
Reactivity 0 or additional information on toxicity, please refer to Section 11. Section 4- First Aid Measures Oral Exposure If swallowed, wash out mouth with water provided person is conscion physician. Inhalation Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. Dermal Exposure In case of skin contact, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Eye Exposure In case of contact with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Flash Point Not available Not available Autoignition Temp Not available Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 7- Accidental Release Measures Evacuate area Procedure to Be Followed in Case of Leak or Spill Evacuate area Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sector 3. Avoid re area and wash spill site after material pickup is complete. <td></td>	
or additional information on toxicity, please refer to Section 11. Section 4- First Aid Measures Oral Exposure Inhalation Exposure Inhalation Exposure In case of skin contact, flush with copious amounts of water for at least Yee Exposure In case of ochract with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Flash Point Autoignition Temp Not available Extinguishing Media Suitable Frie Fighting Protective Equipment Vear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Extinguises Section 6- Accidental Release Measures Procedure to Be Followed in Case of Leak or Spill Procedure(s) of Personal Precaution(s) Methods for Cleaning Up Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid re repeated exposure User Exposure Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid pr repeated exposure Storage Storage Storage Storage Vue respirators and components tested and approved under	
Oral Exposure If swallowed, wash out mouth with water provided person is conscion physician. Inhalation Exposure If sinhaled, remove to fresh air. If breathing becomes difficult, call a physician. Eye Exposure In case of skin contact, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Not available Not available Flash Point Not available Not available Autoignition Temp Not available Not available Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic furmes under fire conditions Section 6- Accidental Release Measures Evacuate area Procedure (s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Methods for Cleaning Up Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Proscedure (so Berosonal Proteotions Mechanical exhaust required <	
Oral Exposure If swallowed, wash out mouth with water provided person is conscious physician. Inhalation Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. Eye Exposure In case of skin contact, flush with copious amounts of water for at least a Remove contaminated clothing and shoes. Call a physician. Section 5- Fire Fighting Measures In case of contact with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Not available Flash Point Not available Autoignition Temp Not available Fire Fighting Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Evacuate area Procedure to Be Followed in Case of Leak or Spill Evacuate area Leak or Spill Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Swee pup, place in a bag and hold for waste disposal. Avoid ra Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure.	
Inhalation Exposure Dermal Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. Eye Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. Eye Exposure In case of skin contact, flush with copious amounts of water for at least a Remove contaminated clothing and shoes. Call a physician. Eye Exposure In case of contact with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Flash Point Not available Not available Extinguishing Media Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Procedure to Be Followed in Case of Leak or Spill Procedure (s) of Personal Precaution(s) Methods for Cleaning Up Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid ruber Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Handling User Exposure Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid pri repeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Engineering Controls Mechanical exhaust required Personal Protective Equipment Respiratory Use respirators and components tested and approved under	
Inhalation Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a physi Dermal Exposure In case of skin contact, flush with copious amounts of water for at least ' Remove contaminated clothing and shoes. Call a physician. Eye Exposure In case of contact with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Not available Flash Point Not available Autoignition Temp Not available Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Vear user spirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid ra Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Storage at -20 °C Handling Mechanical exhaust required Personal Protective Equipment Mechanical exhaust required Personal Protective Equipment Mechanical exhaust required	Jus. Call
Dermal Exposure In case of skin contact, flush with copious amounts of water for at least for minutes. Call a physician. Eye Exposure In case of contact with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Not available Flash Point Not available Autoignition Temp Not available Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Protective Equipment Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Evacuate area Procedure to Be Followed in Case of Leak or Spiil Evacuate area Procedure to Be Followed in Case of Leak or Spiil Evacuate area Section 7- Handling and Storage Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid pri repeated exposure. Storage Storage at -20 °C Section 7- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid pri repeated exposure. Storage<	nicion
Eye Exposure Remove contaminated clothing and shoes. Call a physician. In case of contact with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Flash Point Flash Point Not available Autoignition Temp Not available Flammability Not available Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Protective Equipment Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Evacuate area Procedure to Be Followed in Case of Leak or Spill Evacuate area Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid ra Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid pr repeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Personal Protective Equipment Mechanical exhaust requ	
Eye Exposure In case of contact with eyes, flush with copious amounts of water for minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Not available Flash Point Not available Autoignition Temp Not available Suitable Not available Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Evacuate area Procedure to Be Followed in Case of Leak or Spill Evacuate area Procedure (s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid ra Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Personal Protective Equipment Use respirators and components tested and approved under	15 minute
minutes. Assure adequate flushing by separating the eyelids with finge physician. Section 5- Fire Fighting Measures Not available Flash Point Not available Rammability Not available Suitable Not available Fire Fighting Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Evacuate area Procedure to Be Followed in Case of Leak or Spill Evacuate area Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid re Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Personal Protective Equipment Kepiratory Kepiratory Use respirators and components tested and approved under	
Section 5- Fire Fighting Measures Flash Point Not available Autoignition Temp Not available Flash Point Not available Autoignition Temp Not available Flarmability Not available Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Protective Equipment Protective Equipment Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Evacuate area Procedure to Be Followed in Case of Leak or Spill Evacuate area Leak or Spill Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Methods for Cleaning Up Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Section 7- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Personal Protective Equipment	
Section 5- Fire Fighting Measures Flash Point Not available Autoignition Temp Not available Flammability Not available Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Evacuate area Procedure to Be Followed in Case of Leak or Spill Evacuate area Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid ra Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepared exposure. Storage Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Respiratory Mechanical exhaust required Personal Protective Equipment Mechanical exhaust required	jers. Call
Flash Point Not available Autoignition Temp Not available Flammability Not available Flammability Not available Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prev Protective Equipment Wear self-contained breathing apparatus and protective clothing to prev Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Procedure to Be Followed in Case of Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Methods for Cleaning Up Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Section 7- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Personal Protective Equipment Mechanical exhaust required Personal Protective Equipment Respiratory Use respirators and components tested and approved under	
Flash Point Not available Autoignition Temp Not available Flammability Not available Flammability Not available Extinguishing Media Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prev Protective Equipment Wear self-contained breathing apparatus and protective clothing to prev Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Procedure to Be Followed in Case of Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Methods for Cleaning Up Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Section 7- Handling and Storage Storage Handling User Exposure Very T- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Personal Protective Equipment Respiratory Use respirators and components tested and approved under <td></td>	
Autoignition Temp Not available Flammability Not available Extinguishing Media Suitable Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prevwith skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Evacuate area Procedure to Be Followed in Case of Leak or Spill Evacuate area Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Methods for Cleaning Up Sweep up, place in a bag and hold for waste disposal. Avoid ra Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Personal Protective Equipment Mechanical exhaust required Personal Protective Equipment Mechanical exhaust required Water spiratory Use respirators and components tested and approved under the spiratory	
Flammability Not available Extinguishing Media Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Protective Equipment Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic furmes under fire conditions Section 6- Accidental Release Measures Procedure to Be Followed in Case of Leak or Spill Procedure(s) of Personal Precaution(s) Methods for Cleaning Up Sweep up, place in a bag and hold for waste disposal. Avoid ra Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Handling User Exposure Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid pri repeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Respiratory Use respirators and components tested and approved under a	
Extinguishing Media Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prev with skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Procedure to Be Followed in Case of Leak or Spill Procedure(s) of Personal Precaution(s) Methods for Cleaning Up Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid ra Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Handling User Exposure Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid pr repeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Engineering Controls Mechanical exhaust required Personal Protective Equipment Respiratory Use respirators and components tested and approved under for the set of an approved under for the set of the set	
Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Fire Fighting Wear self-contained breathing apparatus and protective clothing to prevwith skin and eyes. Specific Hazard(s) Emits toxic furmes under fire conditions Section 6- Accidental Release Measures Emits toxic furmes under fire conditions Procedure to Be Followed in Case of Leak or Spill Evacuate area Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid ra Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Personal Protective Equipment Mechanical exhaust required	
Fire Fighting Wear self-contained breathing apparatus and protective clothing to prevwith skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Emits toxic fumes under fire conditions Procedure to Be Followed in Case of Leak or Spill Evacuate area Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid rave Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Handling Handling Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Personal Protective Equipment Mechanical exhaust required	
Protective Equipment Wear self-contained breathing apparatus and protective clothing to prevwith skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Emits toxic fumes under fire conditions Procedure to Be Followed in Case of Leak or Spill Evacuate area Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid raventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Personal Protective Equipment Mechanical exhaust required Respiratory Use respirators and components tested and approved under stores and compo	
with skin and eyes. Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Procedure to Be Followed in Case of Leak or Spill Evacuate area Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid ra Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepated exposure. Storage Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Respiratory Mechanical exhaust required Vertice respiratory Use respirators and components tested and approved under the set of an approved under the set of a set of approved under the set of a set of approved under the set o	vent conta
Specific Hazard(s) Emits toxic fumes under fire conditions Section 6- Accidental Release Measures Evacuate area Procedure to Be Followed in Case of Leak or Spill Evacuate area Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid ra Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Respiratory Mechanical exhaust required Use respirators and components tested and approved under the set of a set	
Procedure to Be Followed in Case of Leak or Spill Evacuate area Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid ra Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Respiratory Mechanical exhaust required	
Procedure to Be Followed in Case of Leak or Spill Evacuate area Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Sweep up, place in a bag and hold for waste disposal. Avoid ra Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Respiratory Mechanical exhaust required	
Leak or Spill Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Methods for Cleaning Up Sweep up, place in a bag and hold for waste disposal. Avoid rave ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Ventilate area and wash spill site after material pickup is complete. Handling User Exposure Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Personal Protective Equipment Use respirators and components tested and approved under a spiratory	
Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber Methods for Cleaning Up Sweep up, place in a bag and hold for waste disposal. Avoid rave Section 7- Handling and Storage Ventilate area and wash spill site after material pickup is complete. Handling User Exposure Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Personal Protective Equipment Mechanical exhaust required Vest respiratory Use respirators and components tested and approved under the store of the sto	
Methods for Cleaning Up Sweep up, place in a bag and hold for waste disposal. Avoid rave ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Handling User Exposure Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Engineering Controls Mechanical exhaust required Personal Protective Equipment Use respirators and components tested and approved under and sported under and spor	er gloves
Ventilate area and wash spill site after material pickup is complete. Section 7- Handling and Storage Handling Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Personal Protective Equipment Mechanical exhaust required Ventilate area and wash spill site after material pickup is complete.	
Handling Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Personal Protective Equipment Mechanical exhaust required Vise respiratory Use respirators and components tested and approved under state	
Handling Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Personal Protective Equipment Mechanical exhaust required Vise respiratory Use respirators and components tested and approved under state	
User Exposure Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prepeated exposure. Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Mechanical exhaust required Engineering Controls Mechanical exhaust required Personal Protective Equipment Use respirators and components tested and approved under state	
Storage repeated exposure. Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Engineering Controls Mechanical exhaust required Personal Protective Equipment Use respirators and components tested and approved under a descent approved under a descen	arolonged
Storage Storage at -20 °C Section 8- Exposure Controls/Personal Protection Equipment Engineering Controls Mechanical exhaust required Personal Protective Equipment Use respirators and components tested and approved under approved under and approved under and approved under approved under and approved under ap	Joionged (
Section 8- Exposure Controls/Personal Protection Equipment Engineering Controls Mechanical exhaust required Personal Protective Equipment Use respirators and components tested and approved under a specific tested a	
Engineering Controls Mechanical exhaust required Personal Protective Equipment Use respirators and components tested and approved under	
Engineering Controls Mechanical exhaust required Personal Protective Equipment Use respirators and components tested and approved under	
Respiratory Use respirators and components tested and approved under	_
Respiratory Use respirators and components tested and approved under	
government standards such as NIOSH (US) or CEN (EU). Respiratory p	
not required. Where protection from nuisance levels of dusts are desire	
B60 Centennial Ave., Piscataway, NJ 08854, USA Toll-free Tel: 1-877-436-7274 Fax: 1-732-210-0262 Email: product@genscript.com Web: www.genscript.com	



Other

General Hygiene Measures

Section 9- Physical and Chemical Properties

Section 5- Thysical and Onennica	i i i operties
Appearance	
Physical State	Lyophilized powder
Property	
Molecular Weight	Not available
рН	Not available
BP/BP Range	Not available
MP/MP Range	Not available
Freezing Point	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Saturated Vapor Conc.	Not available
SG/Density	Not available
Bulk Density	Not available
Odor Threshold	Not available
Volatile%	Not available
VOC Content	Not available
Water Content	Not available
Solvent Content	Not available
Evaporation Rate	Not available
Viscosity	Not available
Surface Tension	Not available
Partition Coefficient	Not available
Decomposition Temp.	Not available
Flash Point	Not available
Explosion Limits	Not available
Flammability	Not available
Autoignition Temp	Not available
Refractive Index	Not available
Optical Rotation	Not available
Miscellaneous Data	Not available
Solubility	Soluble in water

Section 10- Stability and Reactivity

Section 10- Stability and Reactivi	·y
Stability	
Stable	Stable
Hazardous Decomposition Products	
Hazardous Decomposition Products	Nature of decomposition products not known
Section 11- Toxicological Informa	ation
Route of Exposure	
Skin Contact	May cause skin irritation
Skin Absorption	May be harmful if absorbed through the skin
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract, May be harmful if inhaled.
Ingestion	May be harmful if swallowed
Conditions Aggravated by Exposure	The toxicological properties have not been thoroughly investigated.
Section 12- Ecological Information	n
Eco-toxicity	
Toxicity of The Products of	The product itself and its products of degradation are not toxic.
Biodegradation	
Section 13- Disposal Considerati	
Appropriate Method of Disposal of	Waste must be disposed of in accordance with federal, state and local
Substance or Preparation	environmental control regulations.
Section 14- Transport Information	า
DOT	
Proper Shipping Name	None
Non-Hazardous for Transport	This substance is considered to be non-hazardous for transport.
IATA	
	860 Centennial Ave., Piscataway, NJ 08854, USA
Toll-free Tel: 1-877-436-7274	Fax: 1-732-210-0262 Email: product@genscript.com Web: www.genscript.com
101110010111001214	a

One Stop Solution for Biology Research

N95 (US) or type P1 (EN 143) respirator. Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Wash thoroughly after handling



Non-Hazardous for Air Transport

Non-hazardous for air transport

Section 15- Regulatory Information

United States Regulatory information	
SARA Listed	No
Canada Regulatory Information	
WHMIS Classification	This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL	No
NDSL	No

Section 16- Other Information

Disclaimer

For in vitro research use only.

GenScript corporation MSDS is believed to be correct but only used as a guide for experienced personnel, GenScript shall not be held liable for any damage resulting from the handling or from contact with the above product.