

## MATERIAL SAFETY DATA SHEET MSDS No. 2007028

IDENTITY: KE028 Anti Rat 4F2 Heavy Chain (4F2hc:CD98) Polyclonal Antibody

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION MANUFACTURER'S NAME ADRESS TELEPHONE NUMBER FOR INFORMATION EMERGENCY TELEPHONE NUMBER DATA PREPARED		I : TRANS GENIC INC. : 7-1-14 Minatojima minami-machi, Chuo-ku, Kobe, Japan 650-0047 : +81-78-306-0295 : 481-78-306-0295 : May 7, 2007			
2. COMPOSITION / INFORMATIO	N ON INGREDIENTS				
CHEMICAL NAME			CAS NUMBER	CONTENT	
Anti Rat 4F2 Heavy Chain (4F Phosphate buffer solution Block Ace PROCLIN	2hc:CD98) Polyclonal Antibody		- - - -	- 2% 0.1%	
3. HAZARDS IDENTIFICATION         EMERGENCY OVERVIEW       :White frozen mass       Irritation of eyes and skin. May be harmful if inhaled and ingested.         POTENTIAL HEALTH EFFECTS:       :Inhalation; Yes, Skin; Yes, Ingestion; Yes.         ROUTE OF ENTRY       : Inhalation; Yes, Skin; Yes, Ingestion; Yes.         EYE CONTACT       : May irritate and cause pain, tearing, reddings swelling and itching of the eyes.         SKIN CONTACT       : Hypersensitive individuals may experience allergic reactions and dermatologic reactions such as rash and hives.         SKIN ABSORPTION       : Prolonged exposure may result in the material being absorbed through skin in harm full amounts.         INHALATION       : Irritate to the eyes, nose, throat and lungs. It may also cause headaches and dizziness.         INGESTION       : May cause anorexia, headaches, bellyache, diarrhea, nausea, vomiting and fever.         CARCINOGENICITY       : NTP; Not listed, IARC; Not listed, OSHA; Not listed.					
4. FIRST AID EYE CONTACT SKIN CONTACT INHALATION INDIGESTION	<ul> <li>Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.</li> <li>Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use scap to help assure removal. If irritation persists, consult a physician.</li> <li>Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult a physician.</li> <li>Rinse mouth, give plenty of water or milk to dilute the substance and induce vomiting. Consult a physician.</li> </ul>				
5. FIRE FIGHTING MEASURES FLASH POINT FLAMMABLE LIMITS EXTINGUISHING MEDIA FIRE & EXPLOSION HAZARDS	: Not available. : Not available. : Carbon dioxide, dry chemical po S: Toxic, irritating fumes or smoke r	wder, foam, water.			
6. ACCIDENTAL RELEASE MEAS Do not touch spilled material wi	URES thout suitable protection. Take up	spilled material with ashes or other absorbents. After material is comple ves and goggles. Put all wastes in a plastic bag for disposal and seal it tig	etely picked up, wash th		
7. HANDLING AND STORAGE Avoid contact with eyes, skin an Store away from sunlight in a co	d clothing. Avoid prolonged or repe Id (-20 $^{\circ}$ C = -4KF) well- ventilated	eated exposure. Handle material with suitable protection. dry place. Keep container tightly closed.			
VENTILATION	: Use exhaust ventilation to keep : Local Exhaust: Necessary. Mech	airborne concentrations below exposure limits. Use only with adequate v hanical (General): Necessary. ant gloves, Protective clothing, NIOSH / MSHA approved respirator.	rentilation.		
9. PHYSICAL AND CHEMICAL PR	ROPERTIES	OINT: Not Available, BOILING POINT: Not available,			
10. STABILITY AND REACTIVITY CHEMICAL STABILITY CONDITON TO AVOID INCOMPATIBILITY (MATERIAL HAZARDOUS DEOMPOSITION HAZARDOUS POLYMERIZATIO	: Sunlight, heat. TO AVOID): Strong oxidizers, met N PRODUCTS: Carbon monoxide,	mal and anticipated ambient storage and handling conditions. als, acids, acid chlorides nitrogen oxides, Sulfur oxides, phosphor oxides and sodium compound	s may be formed.		
11. TOXICOLOGICAL INFORMATI ACUTE EFFECTS		digestion or skin absorption. The toxicological properties have not been t	horoughly investigated.		
12. ECOLOGICAL INFORMATION Not available.	I				
		ctices employed for infectious waste at your institution. Observe all federa	al, state and local enviro	nmental regulation.	
<ol> <li>TRANSPORT INFORMATION Not available.</li> <li>REGULATORY INFORMATION</li> </ol>	NI .				
Caution: Substance not yet fully					
The above information is believe	ed to be correct but dose not purpo	y persons having chemical knowledge and skill, as their own discretion a rt to be all inclusive and shall be used only as a guide. r from contact with the above material.	nd risk.		