

MATERIAL SAFETY DATA SHEET

SECTION 1. CHEMICAL IDENTIFICATION

1.1. Product identifier

PRODUCT NAME: ACTIN PROTEINS DERIVED FROM RABBIT SKELETAL MUSCLE, LABELED WITH BIOTIN

CYTOSKELETON CATALOG/PRODUCT#: AB07

1.2. Relevant identified uses of the substance or mixture and uses advised against

IDENTIFIED USE: LABORATORY CHEMICALS

1.3. Details of the supplier of the safety data sheet

MANUFACTURER/SUPPLIER:

CYTOSKELETON INC.

1830 S. Acoma St.

Denver, CO 80223

PHONE: 303-322-2254

FAX: 303-322-2257

EMAIL: tservice@cytoskeleton.com

1.4. Emergency telephone number

24H EMERGENCY TOLL-FREE NUMBER: CALL INFOTRAC DAY OR NIGHT

WITHIN USA AND CANADA: 1-800-535-5053

OUTSIDE USA AND CANADA: +1 352-323-3500 (COLLECT CALLS ACCEPTED)

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

THIS PRODUCT IS NOT CONSIDERED HAZARDOUS ACCORDING TO REGULATION 1272/2008/EC.

NOT CLASSIFIED AS DANGEROUS ACCORDING TO DIRECTIVE 67/548/EEC.

2.2. Label elements EC number Hazard statements

NO LABEL REQUIRED IN ACCORDANCE WITH EC DIRECTIVES.

2.3. Other hazards

AS SUPPLIED, THIS PRODUCT IS NOT CONSIDERED HAZARDOUS

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

SUCROSE	CAS#: 57-50-1 EINECS#: 200-334-9	5%
TRIS BASE	CAS#: 77-86-1 EINECS#: 201-064-4	<1%
DEXTRAN	CAS#: 9004-54-0 EINECS#: 232-677-5	1%
CALCIUM CHLORIDE	CAS#: 10035-04-8 EINECS#: 233-140-8	<1%
ADENOSINE 5'-TRIPHOSPHATE DISODIUM SALT (ATP)	CAS#: 42373-41-1 EINECS#: UNLISTED	<1%
PROTEIN	CAS#: NONE EINECS#: NONE	≥95%

SECTION 4. FIRST-AID MEASURES

4.1. Description of first aid measures

AFTER INHALATION: SUPPLY FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT PHYSICIAN IN CASE OF COMPLAINTS

AFTER SKIN CONTACT: IMMEDIATELY WASH SKIN WITH SOAP AND RINSE WITH COPIOUS AMOUNTS OF WATER

AFTER EYE CONTACT: RINSE OPENED EYE FOR AT LEAST 15 MINUTES UNDER RUNNING WATER. CONSULT PHYSICIAN

AFTER SWALLOWING: WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL FOR PHYSICIAN

NOTES TO PHYSICIAN: TREAT SYMPTOMATICALLY

WASH CONTAMINATED CLOTHING BEFORE REUSE.

4.2. Most important symptoms and effects, both acute and delayed

NO ADDITIONAL INFORMATION AVAILABLE

4.3. Indication of any immediate medical attention and special treatment needed

TREAT SYMPTOMATICALLY

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

SUITABLE EXTINGUISHING AGENTS: CARBON DIOXIDE, EXTINGUISHING POWDER OR WATER SPRAY.

5.2. Special hazards arising from the substance or mixture

NONE

5.3. Advice for firefighters

PROTECTIVE EQUIPMENT: MOUNT RESPIRATORY PROTECTIVE DEVICE
PREVENT CONTACT WITH SKIN AND EYES

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

WEAR PROTECTIVE CLOTHING, RESPIRATOR, CHEMICAL SAFETY GOGGLES,
GLOVES.

6.2. Environmental precautions

DILUTE WITH PLENTY OF WATER. DO NOT ALLOW TO ENTER SEWERS/SURFACE
OR GROUND WATER.

6.3. Methods and material for containment and cleaning up

IN LIQUID FORM, ABSORB WITH LIQUID-BINDING MATERIAL (SAND, DIATOMITE,
ACID BINDERS, UNIVERSAL BINDERS, SAWDUST). IN LYOPHILIZED FORM, SWEEP
UP AND COLLECT PRODUCT FOR DISPOSAL. DISPOSE CONTAMINATED MATERIAL
AS WASTE ACCORDING TO SECTION 13. ENSURE ADEQUATE VENTILATION.

6.4. Reference to other sections

SEE SECTION 8 FOR INFORMATION ON PERSONAL PROTECTION EQUIPMENT. SEE
SECTION 13 FOR DISPOSAL INFORMATION.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

ENSURE GOOD VENTILATION/EXHAUSTION AT THE WORKPLACE. WEAR
APPROPRIATE PROTECTIVE CLOTHING (SEE SECTION 8). DO NOT RE-USE
CONTAINER. NO SPECIFIC HANDLING INSTRUCTIONS

INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES: NOT
IGNITABLE

7.2. Conditions for safe storage, including any incompatibilities

REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES: STORE AT 2-
8°C. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE.
STORE DESICCATED.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS: KEEP RECEPTACLE
TIGHTLY SEALED.

7.3. Specific end use(s)

THE IDENTIFIED USES FOR THIS PRODUCT ARE DETAILED IN SECTION 1.2

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES

8.2. Exposure controls

PERSONAL PROTECTIVE EQUIPMENT GENERAL PROTECTIVE AND HYGIENIC MEASURES

KEEP AWAY FROM FOODSTUFFS, BEVERAGES AND FEED

WASH HANDS BEFORE BREAKS AND AT THE END OF WORK

IMMEDIATELY REMOVE ALL SOILED AND CONTAMINATED CLOTHING

AVOID CONTACT WITH THE EYES AND SKIN

BREATHING EQUIPMENT

SHORT TERM FILTER DEVICE: FILTER P1

DO NOT BREATHE. USE MECHANICAL EXHAUST SYSTEM

PROTECTION OF HANDS

PROTECTIVE GLOVES

THE GLOVE MATERIAL HAS TO BE IMPERMEABLE AND RESISTANT TO THE PRODUCT/SUBSTANCE/PREPARATION. AS THE PRODUCT IS A PREPARATION OF SEVERAL SUBSTANCES, THE RESISTANCE OF THE GLOVE MATERIAL CANNOT BE CALCULATED IN ADVANCE AND THEREFORE HAS TO BE CHECKED PRIOR TO APPLICATION. NO RECOMMENDATION CAN BE GIVEN FOR THE GLOVE MATERIAL FOR THIS PRODUCT. SELECT GLOVE MATERIALS BASED ON PENETRATION TIMES, RATES OF DIFFUSION AND DEGRADATION OF MATERIAL.

MATERIAL OF GLOVES

THE SELECTION OF SUITABLE GLOVES DEPENDS NOT ONLY ON THE MATERIAL BUT ON THE QUALITY OF MATERIAL AND VARIES FROM MANUFACTURER TO MANUFACTURER.

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.

FOR THE PERMANENT CONTACT OF A MAXIMUM OF 15 MINUTES, GLOVES MADE OF THE FOLLOWING MATERIALS ARE SUITABLE:

NEOPRENE GLOVES

EYE PROTECTION: TIGHTLY SEALED GOGGLES

BODY PROTECTION: PROTECTIVE WORK CLOTHING

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

FORM: SOLID (LYOPHILIZED POWDER)

MELTING POINT/MELTING RANGE: N/A
BOILING POINT/BOILING RANGE: N/A
FLASH POINT: N/A.
SELF-IGNITING: PRODUCT IS NOT SELF-IGNITING
DANGER OF EXPLOSION: PRODUCT IS NOT EXPLOSIVE.
DENSITY: NOT DETERMINED
SOLUBILITY IN/MISCIBILITY WITH WATER: FULLY MISCIBLE

9.2. Other information

NONE

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

THIS PRODUCT IS NON-REACTIVE UNDER NORMAL CONDITIONS OF USE, STORAGE, AND TRANSPORT

10.2. Chemical stability

STABLE WHEN STORED AS RECOMMENDED.

THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED: NO DECOMPOSITION IF USED ACCORDING TO SPECIFICATIONS

10.3. Possibility of hazardous reactions

NO DANGEROUS REACTIONS KNOWN

10.4. Conditions to avoid

NO DATA AVAILABLE

10.5. Incompatible materials

STRONG ACIDS, STRONG OXIDIZING REAGENTS, SOME METALS

10.6. Hazardous decomposition products

NO DANGEROUS PRODUCTS KNOWN

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

TO THE BEST OF OUR KNOWLEDGE, THE TOXICOLOGICAL PROPERTIES OF THIS PRODUCT HAVE NOT BEEN THOROUGHLY INVESTIGATED.

NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

NO DATA AVAILABLE FOR ACUTE TOXICITY, SKIN CORROSION/IRRITATION, SERIOUS EYE DAMAGE/EYE IRRITATION, RESPIRATORY OR SKIN SENSITIZATION, GERM CELL MUTAGENICITY, SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE, SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE OR

ASPIRATION HAZARD

ON THE SKIN: MAY CAUSE SKIN IRRITATION

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN

ON THE EYE: MAY CAUSE EYE IRRITATION

INHALATION: MAY IRRITATE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. MAY BE HARMFUL IF INHALED

INGESTION: MAY BE HARMFUL IF SWALLOWED

NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC, ACGIH, NTP OR OSHA

SECTION 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

NOT APPLICABLE

12.6. Other adverse effects

NO DATA AVAILABLE

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. DISPOSAL OF THIS PRODUCT, SOLUTIONS AND ANY BYPRODUCTS SHOULD AT ALL TIMES COMPLY WITH THE REQUIREMENTS OF ENVIRONMENTAL PROTECTION AND WASTE DISPOSAL LEGISLATION AND ANY REGIONAL LOCAL AUTHORITY REQUIREMENTS. AVOID DISPERSAL OF SPILLED MATERIAL AND RUNOFF AND CONTACT WITH SOIL, WATERWAYS, DRAINS AND SEWERS. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

DISPOSE OF CONTAMINATED PACKAGING AS UNUSED PRODUCT

WITHIN THE PRESENT KNOWLEDGE OF THE SUPPLIER, THIS PRODUCT IS NOT REGARDED AS HAZARDOUS WASTE, AS DEFINED BY EU DIRECTIVE 91/689/EC.

SECTION 14. TRANSPORT INFORMATION

GENERAL

THIS PRODUCT IS NOT COVERED BY INTERNATIONAL REGULATIONS ON THE TRANSPORT OF DANGEROUS GOODS (IMDG, IATA, ADR/RID). THIS PRODUCT IS CONSIDERED TO BE NON-HAZARDOUS FOR TRANSPORT.

14.1. UN number

NOT APPLICABLE

14.2. UN proper shipping name

NOT CLASSIFIED

14.3. Transport hazard class(es)

NOT CLASSIFIED

14.4. Packing group

NOT CLASSIFIED

14.5. Environmental hazards

NO DATA AVAILABLE

14.6. Special precautions for user

NOT APPLICABLE

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

NOT APPLICABLE

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

ACTIN FROM RABBIT MUSCLE IS NOT ON THE REACH CANDIDATE LIST
ACTIN FROM RABBIT MUSCLE IS NOT ON THE REACH ANNEX XIV LIST
ACTIN FROM RABBIT MUSCLE IS NOT SUBJECT TO REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 4 July 2012 CONCERNING THE EXPORT OR IMPORT OF HAZARDOUS CHEMICALS
ACTIN FROM RABBIT MUSCLE IS NOT SUBJECT TO REGULATION (EC) No 850/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 April 2004 ON PERSISTENT ORGANIC POLLUTANTS AND AMENDING DIRECTIVE 79/117/EEC
ACTIN FROM RABBIT MUSCLE IS NOT ON THE GB MCL LIST

15.2. Chemical safety assessment

NO CHEMICAL SAFETY ASSESSMENT HAS BEEN CARRIED OUT

SECTION 16. OTHER INFORMATION

THIS INFORMATION IS BASED ON OUR PRESENT KNOWLEDGE. HOWEVER, THIS SHALL NOT CONSTITUTE A GUARANTEE FOR ANY SPECIFIC PRODUCT FEATURES AND SHALL NOT ESTABLISH A LEGALLY VALID CONTRACTUAL RELATIONSHIP. THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT, BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. CYTOSKELETON INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM CONTACT WITH THE ABOVE PRODUCT.

SAFETY DATA SHEET IS APPLICABLE FOR REGIONS: GB – UNITED KINGDOM

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