Cytoskeleton, Inc. REVISED 5/31/2024

## MATERIAL SAFETY DATA SHEET

#### **SECTION 1. CHEMICAL IDENTIFICATION**

## CATALOG/PRODUCT#: AR07

**NAME:** MUSCLE ACTIN PROTEINS DERIVED FROM RABBIT SKELETAL MUSCLE LABELED WITH HILYTE 555 FLUORESCENT DYE.

**USE:** LABORATORY CHEMICALS

#### **MANUFACTURER/SUPPLIER:**

CYTOSKELETON INC.

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

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

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## **SECTION 2. HAZARDS IDENTIFICATION**

## **EMERGENCY OVERVIEW**

## **OSHA HAZARDS**

NOTE: COMPONENTS DEEMED HAZARDOUS BY OSHA (29 CFR 1910.1200) ARE PRESENT AT <1% CONCENTRATION. THEREFORE, THIS PRODUCT IS NOT CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

## **GHS CLASSIFICATION**

THIS PRODUCT IS NOT CONSIDERED HAZARDOUS DUE TO <1% HILYTE 555 DYE.

AT CONCENTRATIONS ABOVE 1%, HAZARDOUS INFORMATION IS LISTED BELOW:

## **GHS CLASSIFICATION:**

SKIN CORROSION/IRRITATION	CATEGORY 2
SERIOUS EYE DAMAGE/IRRITATION	CATEGORY 2
RESPIRATORY SENSITIZATION	CATEGORY 1
SKIN SENSITIZATION	CATEGORY 1
SPECIFIC TARGET ORGAN SYSTEM TOXICITY (SINGLE EXPOSURE)	CATEGORY 3

## GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS



#### **SIGNAL WORD: DANGER**

## **HAZARD STATEMENTS:**

H315 CAUSES SKIN IRRITATION

H319 CAUSES SERIOUS EYE IRRITATION

H317 MAY CAUSE AN ALLERGIC SKIN REACTION

H334 MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING

DIFFICULTIES IF INHALED

H335 MAY CAUSE RESPIRATORY IRRITATION

## PRECAUTIONARY STATEMENTS:

P302+P352
P305+P351+P338

IF ON SKIN, WASH WITH PLENTY OF SOAP AND WATER
IF IN EYES, RINSE CAUTIOUSLY WITH WATER FOR SEVERAL
MINUTES. REMOVE CONTACT LENSES IF PRESENT AND EASY
TO DO. CONTINUE RINSING.

P304+P340

IF INHALED, REMOVE VICTIM TO FRESH AIR AND KEEP AT
REST IN A POSITION COMFORTABLE FOR BREATHING
IF SKIN IRRITATION OCCURS, GET MEDICAL
ADVICE/ATTENTION

P337+P313

IF EYE IRRITATION PERSISTS, GET MEDICAL

ADVICE/ATTENTION

P261 AVOID BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY

## PRINCIPLE ROUTES OF EXPOSURE

## POTENTIAL HEALTH EFFECTS

EYES IRRITATING TO EYES SKIN IRRITATING TO SKIN

INHALATION IRRITATING TO RESPIRATORY SYSTEM

INGESTION MAY BE HARMFUL IF SWALLOWED. INGESTION MAY CAUSE

GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA

## **SPECIFIC EFFECTS**

CARCINOGENIC EFFECTS NONE MUTAGENIC EFFECTS NONE REPRODUCTIVE TOXICITY NONE

SENSITIZATION CATEGORY 1

TARGET ORGAN EFFECTS NONE UNDER NORMAL USE

## **HMIS RATINGS**

HEALTH = 4\* FIRE = 0 REACTIVITY = 0

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

#### SECTION 4. FIRST-AID MEASURES

**AFTER INHALATION**: SUPPLY FRESH AIR. IF NOT BREATHING, IF BREATHING IS IRREGULAR OR IF RESPIRATORY ARREST OCCURS, PROVIDE ARTIFICIAL RESPIRATION. CONSULT PHYSICIAN

**AFTER SKIN CONTACT**: IMMEDIATELY WASH SKIN WITH SOAP AND RINSE WITH COPIOUS AMOUNTS OF WATER. CONSULT PHYSICIAN

**AFTER EYE CONTACT**: CHECK FOR AND REMOVE ANY CONTACT LENSES. RINSE OPENED EYE FOR AT LEAST 15 MINUTES UNDER RUNNING WATER. THEN CONSULT PHYSICIAN

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

WASH CONTAMINATED CLOTHING BEFORE REUSE.

## **SECTION 5. FIREFIGHTING MEASURES**

FINE DUST CLOUDS MAY FORM EXPLOSIVE MIXTURES WITH AIR

#### **EXTINGUISHING MEDIA**

**SUITABLE EXTINGUISHING AGENTS**: USE DRY CHEMICAL POWDER. DO NOT USE WATER SPRAY

#### ADVICE FOR FIREFIGHTERS

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

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<sup>\*</sup>AT CONCENTRATIONS ABOVE 1% HILYTE 555 DYE.

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: WEAR PROTECTIVE CLOTHING, RESPIRATOR, CHEMICAL SAFETY GOGGLES, GLOVES.

**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 SECTION 13. ENSURE ADEQUATE VENTILATION. REFERENCE TO OTHER SECTIONS: SEE SECTION 8 FOR INFORMATION ON PERSONAL PROTECTION EQUIPMENT. SEE SECTION 13 FOR DISPOSAL INFORMATION.

## SECTION 7. HANDLING AND STORAGE

## HANDLING

## PRECAUTIONS FOR SAFE HANDLING: ENSURE GOOD

VENTILATION/EXHAUSTION AT THE WORKPLACE. WEAR APPROPRIATE PROTECTIVE CLOTHING (SEE SECTION 8). DO NOT RE-USE CONTAINER. DO NOT EAT, DRINK OR SMOKE IN AREAS WHERE THIS PRODUCT IS HANDLED, STORED OR PROCESSED. WASH HANDS AFTER WORKING WITH MATERIAL.

INFORMATION AROUT PROTECTION AGAINST EXPLOSIONS AND FIRES: STORED

INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES: STORE IN CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL, WELL-VENTILATED PLACE. STORE AT -70 DEGREES C OR 4 DEGREES C WITH DESICCANT. ELIMINATE ALL IGNITION SOURCES AND SEPARATE FROM OXIDIZING MATERIALS. KEEP CONTAINERS CLOSED AND SEALED.

## CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES STORAGE

**REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES**: STORE AT 2-8°C WITH DESICCANT (OR -70 DEGREES C). KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. STORE DESICCATED.

**FURTHER INFORMATION ABOUT STORAGE CONDITIONS**: KEEP RECEPTACLE TIGHTLY SEALED.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 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 P2
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 BASE 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 QUALITY OF MATERIAL AND VARIES FROM MANUFACTURER TO MANUFACTURER.

## PENETRATION TIME OF GLOVE MATERIAL

THE EXACT BREAK TROUGH 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

## INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES GENERAL INFORMATION

FORM: SOLID (LYOPHILIZED POWDER)

COLOR: RED/PINK

CHANGE IN CONDITION

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

## **SECTION 10. STABILITY AND REACTIVITY**

#### REACTIVITY

**CHEMICAL STABILITY:** THE PRODUCT IS STABLE.

THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED: AVOID CREATION OF DUST WHEN HANDLING AND AVOID ALL POSSIBLE SOURCES OF IGNITION. PREVENT DUST ACCUMULATION. REACTIVE OR INCOMPATIBLE WITH OXIDIZING MATERIALS.

POSSIBILITY OF HAZARDOUS REACTIONS: NO DANGEROUS REACTIONS KNOWN

## HAZARDOUS DECOMPOSITION PRODUCTS: NO DANGEROUS PRODUCTS KNOWN

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### 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.

INHALATION SLIGHTLY IRRITATING TO THE RESPIRATORY SYSTEM. MAY

CAUSE SENSITIZATION BY INHALATION. EXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH

HAZARD.

INGESTION NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS

SKIN SLIGHTLY IRRITATING TO THE SKIN EYES SLIGHTLY IRRITATING TO THE EYES

## **SECTION 12. ECOLOGICAL INFORMATION**

NO DATA AVAILABLE. NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### WASTE TREATMENT METHODS

CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. DISPOSAL OF THIS PRODUCT, SOLUTIONS AND ANY BY-PRODUCTS 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 MAERIAL AND RUNOFF AND CONTACT WITH SOIL, WATERWAYS, DRAINS AND SEWERS. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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**

DOT CLASSIFICATION: THIS PRODUCT IS CONSIDERED TO BE NON-HAZARDOUS FOR TRANSPORT. NOT REGULATED

IATA-DGR CLASSIFICATION: THIS PRODUCT IS CONSIDERED TO BE NON-HAZARDOUS FOR TRANSPORT. NOT REGULATED

## **SECTION 15. REGULATORY INFORMATION**

## UNITED STATES REGULATORY INFORMATION

## HCS CLASSIFICATION: SENSITIZING MATERIAL

## SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986-USA) SECTION 302/304 (40CFR355.30/40CFR355.40):

NONE OF THE INGREDIENTS IS LISTED.

## SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986-USA) SECTION 302/304/311/312:

NO PRODUCTS WERE LISTED

## SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986-USA) SECTION 313:

THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.

#### CANADA REGULATORY INFORMATION

WHMIS CLASSIFICATION: CLASS D-2B: MATERIAL CAUSING OTHER TOXIC EFFECTS (TOXIC).

## EU REGULATORY INFORMATION

THIS PRODUCT IS NOT CLASSIFIED ACCORDING TO EU LEGISLATION.

#### **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.

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