MATERIAL SAFETY DATA SHEET

Purified Proteins

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SECTION 1:------------------CHEMICAL IDENTIFICATION-------------------------------------
NAME: PURIFIED PROTEINS

SECTION 2:------------------COMPOSITION/INFORMATION ON INGREDIENTS-------
SUBSTANCE NAME CAS #
PURIFIED PROTEIN WITH .01% SODIUM AZIDE N/A

THE HAZARDS IDENTIFIED WITH THIS PRODUCT ARE THOSE ASSOCIATED WITH THE FOLLOWING COMPONENT(S):
SODIUM AZIDE 26628-22-8
SODIUM CHLORIDE 7647-14-5

SECTION 3:------------------HAZARDS IDENTIFICATION----------------------------------------
EMERGENCY OVERVIEW
SODIUM AZIDE MAY REACT WITH LEAD AND COPPER PLUMBING TO FORM HIGHLY EXPLOSIVE METAL AZIDES.

HMIS RATING
HEALTH: 0
FLAMMABILITY: 0
REACTIVITY: 1

NFPA RATING
HEALTH: 0
FLAMMABILITY: 0
REACTIVITY: 1

FOR 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. CALL A PHYSICIAN IMMEDIATELY.

INHALATION EXPOSURE
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

DERMAL EXPOSURE
IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN.

EYE EXPOSURE
IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.
SECTION 5:------------------FIRE FIGHTING MEASURES-------------------------------------

EXPLOSION HAZARDS
AZIDE REACTS WITH MANY HEAVY METALS SUCH AS LEAD, COPPER, MERCURY, SILVER, GOLD TO FORM EXPLOSIVE COMPOUNDS. COPPER AND LEAD AZIDES ARE MORE SENSITIVE THAN NITROGLYCERINE. AZIDE REACTS WITH METAL HALIDES TO GIVE A RANGE OF METAL AZIDE HALIDES, MANY OF WHICH ARE EXPLOSIVE. INCOMPATIBLE WITH CHROMYL CHLORIDE, HYDRAZINE, BROMINE, CARBON DISULFIDE, DIMETHYL SULFATE, DIBROMOMALONITRILE. AUTOIGNITION TEMP N/A
FLAMMABILITY N/A
EXTINGUISHING MEDIA SUITABLE: WATER SPRAY. CARBON DIOXIDE, DRY CHEMICAL POWDER, OR APPROPRIATE FOAM.
FIREFIGHTING PROTECTIVE EQUIPMENT: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES. SPECIFIC HAZARD(S): EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6:------------------ACCIDENTAL RELEASE MEASURES-------------------------------

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS, AND HEAVY RUBBER GLOVES.
METHODS FOR CLEANING UP SPILLED MATERIAL SHOULD BE CAREFULLY WIPED UP OR MOISTENED WITH WATER AND REMOVED. 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 PROLONGED OR REPEATED EXPOSURE.

SECTION 8:--------------------EXPOSURE CONTROLS/PERSONAL PROTECTION------------------

PERSONAL PROTECTIVE EQUIPMENT 
RESPIRATORY: USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR CEN (EU). WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A FULL-FACE PARTICLE RESPIRATOR TYPE N100 (US) OR TYPE P3 (EN 143) RESPIRATOR CARTRIDGES AS A BACKUP TO ENGINEERING CONTROLS. IF THE RESPIRATOR IS THE SOLE MEANS OF PROTECTION, USE A FULL-FACE SUPPLIED AIR RESPIRATOR.
HAND: COMPATIBLE CHEMICAL-RESISTANT GLOVES.
EYE: CHEMICAL SAFETY GOGGLES.
GENERAL HYGIENE MEASURES: WASH THOROUGHLY AFTER HANDLING. WASH CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 9:---------------------PHYSICAL AND CHEMICAL PROPERTIES-----------------------

APPEARANCE AND ODOR LIQUID

SECTION 10:-------------------STABILITY AND REACTIVITY --------------------------------- 

STABLE 
MATERIALS TO AVOID: DIMETHYL SULFATE IS INCOMPATIBLE WITH SODIUM AZIDE, ACID CHLORIDES, HALOGENATED SOLVENTS AVOID CONTACT WITH METALS. AVOID CONTACT WITH ACID. SODIUM AZIDE MAY REACT WITH LEAD AND COPPER PLUMBING TO FORM HIGHLY EXPLOSIVE METAL AZIDES.
SODIUM CHLORIDE: AVOID STRONG OXIDIZING AGENTS AND ACIDS
HAZARDOUS DECOMPOSITION PRODUCTS: NATURE OF DECOMPOSITION
PRODUCTS IS UNKNOWN
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

ROUTE OF EXPOSURE
SKIN CONTACT: MAY CAUSE SKIN IRRITATION.
SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
EYE CONTACT: MAY CAUSE EYE IRRITATION.
INHALATION: MAY BE HARMFUL IF INHALED. MATERIAL MAY BE
IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
INGESTION: MAY BE HARMFUL IF SWALLOWED.

SIGNS AND SYMPTOMS OF EXPOSURE
MANY AZIDES CAUSE A FALL IN BLOOD PRESSURE AND SOME INHIBIT ENZYME
ACTION. LABORATORY EXPERIMENTS IN ANIMALS HAVE SHOWN SODIUM AZIDE
TO PRODUCE A PROFOUND HYPOTENSIVE EFFECT, DEMYELINATION OF
MYELINATED NERVE FIBERS IN THE CENTRAL NERVOUS SYSTEM, TESTICULAR
DAMAGE, BLINDNESS, ATTACKS OF RIGIDITY, AND HEPATIC AND CEREBRAL
EFFECTS.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

SECTION 12: ECOLOGICAL INFORMATION
DATA NOT YET AVAILABLE

SECTION 13: DISPOSAL CONSIDERATIONS
APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE
OF THIS MATERIAL. DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE
SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN
AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE, AND LOCAL
ENVIRONMENTAL REGULATIONS.

SECTION 14: TRANSPORT INFORMATION
DOT
PROPER SHIPPING NAME: NONE
NON-HAZARDOUS FOR TRANSPORT: THIS SUBSTANCE IS CONSIDERED TO BE NON-
HAZARDOUS FOR TRANSPORT.
IATA
NON-HAZARDOUS FOR AIR TRANSPORT: NON-HAZARDOUS FOR AIR TRANSPORT.

SECTION 15: REGULATORY INFORMATION
NOT AVAILABLE.

SECTION 16: OTHER INFORMATION
THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT
TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. MANUFACTURER
SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING
FROM CONTACT WITH THE ABOVE PRODUCT.