SAFETY DATA SHEET (SDS)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING:

Product Name: Human NK Cell Basics Panel
Catalog Number: PK30009
Chemical Name: Not applicable
REACH registration number: No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

COMPANY/UNDERTAKING IDENTIFICATION:
Proteintech Group
5500 Pearl Street
STE 300
Rosemont, IL 60018
312-455-8498
proteintech@ptglab.com

Emergency telephone number:
312-455-8498

2. HAZARDOUS IDENTIFICATION:

Classification according to Regulation (EC) No 1272/2008 (CLP) and GHS

Ingredients are either not classified as dangerous according to EC Directives, or not considered to be hazardous in the very low quantities/concentrations present.

Labelling according to Regulation (EC) No 1272/2008 (CLP) and GHS
Pictogram: None
Signal word: None
Hazard statements: None
Precautionary statements:
P314 – Get medical advice/attention if you feel unwell.
P501 – Dispose of contents/container to an approved waste disposal plant.
P264 – Wash hands thoroughly after handling.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 – IF ON SKIN: wash with plenty of water.
P332+P313 – IF SKIN irritation occurs: Get medical advice/attention.
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P337+P313 – IF eye irritation persists: Get medical advice/attention.
Hazards not otherwise classified: None known.

3. INGREDIENT COMPOSITION/INFORMATION:

Mixture of the substances listed below, and additional trade secret chemicals.

Sodium azide	≤ 0.1 %	Cas#: 26628-22-8
BSA	≤ 0.5%	Cas#: 9048-46-8
Sodium Chloride	≤ 8.0 %	Cas#: 7647-14-5
Sodium Phosphate Dibasic	≤ 2.0 %	Cas#: 7558-79-4
Sodium Phosphate, monobasic	≤ 0.3 %	Cas#: 7558-80-7

4. FIRST AID MEASURES:

General Advice	Consult a physician. Show this Safety Data Sheet to the doctor in attendance.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. Get medical attention if symptoms occur. If symptoms persist, consult a physician.
Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Ingestion	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

POTENTIAL ACUTE HEALTH EFFECTS:

Skin contact: May cause sensitization of susceptible persons.

OVER-EXPOSURE SIGNS/SYMPTOMS:

Skin contact: Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeat exposure.

Ingestion: Repeated ingestion may cause damage to kidneys. Avoid repeat exposure.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11).

5. FIRE FIGHTING MEASURES:

Suitable extinguishing media: Water fog. alcohol resistant foam. dry extinguishing powder. Carbon dioxide (CO_2).

Unsuitable extinguishing media: High power water jet.

Specific hazards arising from the chemical: Pyrolysis products, toxic. Carbon dioxide. Carbon monoxide.

Special protective actions for fire-fighters: Co-ordinate fire-fighting measures to the fire surroundings.

Special protective equipment for fire-fighters: In case of fire: Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment, and emergency procedures:
For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment.
For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:
Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE:

Use only in area provided with good general ventilation. Avoid contact with skin, eyes, and clothing. Wear appropriate protective clothing (Section 8).
Keep container tightly closed, and in a cool area. Store at +2°C to +8°C.

PRECAUTIONS FOR SAFE HANDLING:
Protective measures: Put on appropriate personal protective equipment (see Section 8)

ADVICE ON GENERAL OCCUPATIONAL HYGIENE:
Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
Do not store above the following temperature: +8°C.
Store in accordance with local regulations. Store in original container protected from light in a dry, cool, and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PPE:

CONTROL PARAMETERS:
Occupational exposure limits: 25ppm
Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

INDIVIDUAL PROTECTION MEASURES:
Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

EYE/FACE PROTECTION:
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

SKIN PROTECTION:
Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

RESPIRATORY PROTECTION:
Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical state @ 4°C: Solution
Color: Varies
Odor: Not available
Odor threshold pH: Not available
Melting point: Not available
Boiling point: Not available
Flash point: Not available
Burning time: Not applicable
Burning rate: Not applicable
Evaporation rate: Not available
Flammability (solid, gas): Not available
Lower and upper explosive (flammable) limits: Not available
Vapor pressure: Not available
Vapor density: Not available
Relative density: Not available
Solubility: Soluble
Partition coefficient: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
SADT: Not available
Viscosity: Not available

10. STABILITY AND REACTIVITY:

Reactivity: None known
Chemical stability: Stable under normal conditions
Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid: Heat. Freezing. UV-radiation/sunlight. Light.
Incompatible materials: Oxidizing agents, Reducing agents, Acid, Alkalis
Hazardous decomposition products: Pyrolysis products, toxic. Carbon monoxide. Carbon dioxide.

11. TOXICOLOGICAL INFORMATION:

INFORMATION ON TOXICOLOGY EFFECTS:
Acute toxicity:

Sodium azide	Conc.: ≤ 0.1 %	Cas#: 26628-22-8

Irritation/Corrosion: Slightly irritant but not relevant for classification.
Sensitization: Not sensitizing
Mutagenicity: Not available
Carcinogenicity: Not available
Reproductive toxicity: Not available
Teratogenicity: Not available
Specific target organ toxicity (single exposure): Not available
Specific target organ toxicity (repeated exposure): Oral – May case damage to kidneys through prolonged or repeated exposure.
Aspiration hazard: Not available
Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE:
Routes of entry anticipated: Oral, Dermal, Inhalation.

POTENTIAL ACUTE HEALTH EFFECTS:
Eye contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin contact: May cause sensitization of susceptible persons.
Ingestion: May cause damage to kidneys with repeated exposure.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL, AND TOXICOLOGICAL CHARACTERISTICS:
Eye contact: Slightly irritant but not relevant for classification.
Inhalation: No specific data.
Skin contact: Slightly irritant but not relevant for classification.
Ingestion: No specific data.

POTENTIAL EFFECTS OF SHORT-TERM EXPOSURE:
Potential immediate effects: Not available.
Potential delayed effects: Not available.
Potential chronic health effects: Not available.

POTENTIAL EFFECTS OF LONG-TERM EXPOSURE:
Potential immediate effects: Not available.
Potential delayed effects: Repeated contact may cause allergic reactions in very susceptible persons. Repeated ingestion may cause damage to kidneys.
Potential chronic health effects: Not available.

NUMERICAL MEASURES OF TOXICITY:
Acute toxicity estimates: Not available.

General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION:

Persistence and degradability: Product is biodegradable.
Bioaccumulative potential: No indication of bioaccumulation potential.
Mobility in soil: No information available.
Results of PBT and vPvB assessment: This substance does not meet the criteria for classification as PBT or vPvB.
Other adverse effects: No information available.

DISPOSAL CONSIDERATIONS:
Appropriate disposal/Product: Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions. May be disposed of in household waste landfill.
Appropriate disposal / Package : Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.
List of proposed waste codes/waste designations in accordance with EWC: According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.
Waste code product: 18 02 05 - chemicals consisting of or containing dangerous substances
Waste code packaging: 15 01 10 - packaging containing residues of or contaminated by dangerous substances

13. TRANSPORT INFORMATION:

Not classified as dangerous in the meaning of transport regulations.

14. REGULATORY INFORMATION:

US FEDERAL REGULATIONS:
This mixture is not listed on the TSCA Inventory.This substance is not SARA listed.
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed
Clean Air Act Section 602 Class I Substances: Not listed
Clean Air Act Section 602 Class II Substances: Not listed
DEA List I Chemicals (Precursor Chemicals) : Not listed
DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304:
Composition/information on ingredients: No products were found. SARA 304 RQ: Not applicable.

SARA 311/312:
Classification: Not applicable.
Composition/information on ingredients: No products were found. State regulations:
California Prop65: Not listed

EU LEGISLATION:
Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline): None

Regulation (EC) No 2037/2000 concerning materials, which cause damage to the ozone layer: None

Regulation (EC) No. 648/2004 (Detergents regulation): None

INTERNATIONAL REGULATIONS: None

15. OTHER INFORMATION:

Reason for revision: Initial release of SDS
Revision number: 0
Revision: 05/17/2023

The above information is believed to be correct but should only be used as a guide for experienced personnel. Proteintech Group Inc. will not be liable for any damage resulting from the handling of or from contact with the above product. This SDS does not purport to be all-inclusive.

For lab use only, not for diagnostic or therapeutic work.