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MATERIAL SAFETY DATA SHEET

EMERGENCY ASSISTANCE - 24 hour

For emergency assistance involving chemicals call CHEMTREC (800) 424-9300.

SECTION 1: MATERIAL INFORMATION

Common Name: **XV FACTOR**
Synonyms: N/AP
Catalog Number: R6220, R6221, R7380
CAS #: N/AV
WARNING: POISON

SECTION 2: HAZARDOUS INGREDIENTS

| <u>Hazardous Components</u> | <u>CAS #</u> | <u>Chemical Family</u> | <u>Molecular Formula</u> | <u>Approximate Concentration</u> |
|--------------------------------------|--------------|------------------------|--------------------------|----------------------------------|
| *L-Cysteine HCl | 7048-04-6 | N/AV | N/AV | 3% |
| L-Glutamine | 56-85-9 | N/AV | N/AV | 1% |
| Hydrochloric Acid | 7647-01-0 | Acid | HCl | 0.5% |
| *R6223, R6224 have no L-Cysteine HCl | | | | |

SECTION 3: PHYSICAL DATA

| | | |
|--------------------------------------|---|-------------------------------|
| Appearance: Clear pink liquid | pH: 1.2 | Vapor Density: N/AV |
| Boiling Point: N/AV | Solubility in Water: Appreciable | Flash Point: N/AV |
| Melting Point: N/AV | Vapor Pressure: N/AV | Evaporation Rate: N/AV |
| Odor: Sweet | Specific Gravity: N/AV | |

SECTION 4: FIRE AND EXPLOSION HAZARD

Flammable: No

Flammable Limits:

Upper: N/AP Lower: N/AP

Extinguish Media:

Water, CO₂, dry chemical, "alcohol" or polymer foam

Special Hazards:

Wear self-contained, positive-pressure breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards:

None

SECTION 5: REACTIVITY DATA

Stable: **Unstable:**

Conditions to Avoid:

Heat, sparks, open flame

Materials to Avoid:

- Water -
- Acids -
- Bases -
- Corrosives -
- Oxidizers -
- Other: Metals, amines

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, hydrogen chloride gas

SECTION 6: HEALTH HAZARD DATA

To the best of our knowledge, the chemical, physical, and toxicological properties of this mixture have not been thoroughly investigated. Presented below are specific data on each of the subcomponent ingredients:

| <u>Hazardous Component</u> | <u>%</u> | <u>Threshold Limit Value</u> | <u>TXDS</u> |
|----------------------------|----------|----------------------------------|---|
| *L-Cysteine HCl | 3% | N/AV | N/AV |
| L-Glutamine | 1% | N/AV | ORL-RAT LD50: 7500 mg/kg ORL-MUS LD50: 21700 mg/kg IHL-HMN LDLO: 1000 ppm/1 M |
| Hydrochloric Acid | 0.5% | 5 ppm | |

Effects of Overexposure (Acute and Chronic):

May cause irritation to mucous membranes, upper respiratory tract, skin, and eyes.

Carcinogenicity: These products do not contain any carcinogens at 0.1% or greater.

First Aid Procedure:

Skin Contact: Wash with soap and copious amounts of water.
Eye Contact: Flush with water for 15 minutes; get immediate medical attention.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration; if breathing is difficult, give oxygen; seek medical attention.
Ingestion: Do not induce vomiting. If conscious, give water, milk, milk of magnesia, or activated charcoal. Seek medical attention.

In all cases of overexposure seek medical attention.
 Wash contaminated clothing before reuse.

SECTION 7: SPILL OR LEAK PROCEDURES AND DISPOSAL

Steps to be taken if Material is Released or Spilled:

Take up with an absorbent material. Wash spill area.

Waste Disposal Method:

Observe all local, provincial, state, and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Provide adequate general mechanical and local exhaust ventilation.
 Avoid prolonged or repeated inhalation of vapor.
 Protect eyes, skin, and clothing with safety goggles and gloves.
 Wash thoroughly after handling.

SECTION 9: SPECIAL HANDLING AND STORAGE PRECAUTIONS

Keep container tightly closed. Protect against physical damage. Store in a cool, dry place.

SECTION 10: MSDS PREPARATION AND INFORMATION

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Revised By: Charissa H. Bolind

Authorized Signature: 

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