**SAFETY DATA SHEET**

**HUNTEX TV-002**

**SECTION 1: Identification of the substance/mixture and of the company**

**1.1 Product identifier**

Trade name **Huntex TV-002**

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

Relevant identified uses Scale inhibitor and dispersing agent for use in industrial water treatment and detergent programs

**1.3 Details of the supplier of the safety data sheet**

Hung Xuong Chemical Company Limited

Address: Hai Son Industrial Zone, Binh Tien 2 Hamlet, Duc Hoa Ha Commune,

Duc Hoa District, Long An Province, Vietnam

Head office: 28/18/15 Luong The Vinh, Tan Thoi Hoa Ward,

Tan Phu District, Ho Chi Minh City, Vietnam

Telephone: (84-72) 377 8055 377 8056

Fax: (84-72) 377 8060

Mail: [office@hungxuong.com.vn](mailto:office@hungxuong.com.vn)

Website: www.hungxuong.com.vn

**1.4 Emergency telephone number**

Emergency information service: (+84) 906 967 098 (Lu Quoc Minh - Sales Manager)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

GHS Classification:

|  |  |  |  |
| --- | --- | --- | --- |
| Hazard class | Category | Hazard class and category | Hazard statement |
| Acute toxicity - Oral | 4 | Acute tox. 4 | H302 |
| Serious Eye Damage/Irritation | 2A | Eye Dam./Irrit. 2A | H319 |
| Skin corrosion/Irritation | 3 | Skin Corr./Irrit. 3 | H316 |
| Acute hazards to the aquatic enviroment | 2 | Aquatic Acute 2 | H401 |

**2.2 Label elements**

* Hazard pictogram(s):

GHS07 

* Signal word: Danger
* Hazard statements:

H302 **Harmful if swallowed**.

H316 **Causes mild skin irritation**.

H319 **Causes serious eye irritation**.

H402 **Harmful to aquatic life**.

* Precautionary statements:

Prevention:

P264 **Wash hands and contaminated body thoroughly after handling.**

P270 **Do not eat, drink or smoke when using this product.**

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P312 **IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.**

P330 **Rinse mouth.**

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.**

Storage:

P501 Dispose of contents/container to industrial combustion plant.

**2.3 Other hazards**

None if used properly.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixture**

Description:

**Dangerous components:**

|  |  |  |
| --- | --- | --- |
| Name: | (1-Hydroxyethylidene)Bis-Phosphonic Acid Tetrasodium Salt | sodium,[2-[2-[bis(phosphonomethyl)amino]ethyl-(phosphonomethyl)amino]ethyl-(phosphonomethyl)amino]methyl-hydroxyphosphinate |
| Concentration: | 15% | 5% |
| CAS-no: | 3794-83-0 | 22042-96-2 |
| CLP classification: | Acute tox. 4, H302  Eye Dam./Irrit. 2A, H319 | Eye Dam./Irrit. 2B, H320  Skin Corr./Irrit. 3, H316  Aquatic Acute 2, H401 |

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

General notes: Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm and still. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation: In case of exposure remove exposed person to fresh air. If breathing has ceased, give artificial respiration. Seek medical attention.

Following skin contact: Removing all contaminated clothes and shoes. Wash off immediately with plenty of water and soap for at least 15 minutes. If skin irritation persists, call a physician. Wash contaminated clothing before reuse.

Following eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

Following ingestion: First rinse mouth. Give large amount of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

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

No data available.

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

No data available.

Information to medics: Bring this safety data sheet.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

Recommended: Water, Dry chemical powder, Dry sand , Foam, CO2.

Unsuitable Extinguishing Media: No information available

**5.2 Special hazards arising from the substance or mixture**

Hazardous combustion products: Carbon monoxide (CO), carbon dioxide, nitrogen oxides (NOx), phosphorus oxides (PxOy), phosphines.

**5.3 Advice for firefighters**

Firefighters and others exposed, wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions, and protective equipment:

Use personal protection recommended in section 8.

Avoid contact with eyes and skin.

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**6.2 Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas.

Do not flush into surface water or sanitary sewer system.

Prevent further leakage or spillage if safe to do so.

Discharge into the environment must be avoided.

**6.3 Methods and material for containment and cleaning up**

Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal.

Absorb remaining material or small spills with an inert material and then place in a chemical waste container.

Neutralize washings with soda ash or lime. Flush spill area with water.

Additional instructions: After clean up operations, decontaminate & launder all protective clothing and equipment before storing & reusing.

**6.4 Reference to other sections**

Disposal considerations: see section 13.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Avoid contact with eyes, skin and clothing.

Do not breathe dust/fume/gas/mist/vapors/spray..

Use with local exhaust ventilation. Do not enter confined spaces until atmosphere has been checked.

Keep container closed.

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working

**7.2 Conditions for safe storage, including any incompatibilities**

Conditions for safe storage:

Store in cool, dry, well-ventilated area away from heat and ignition sources. Keep containers securely sealed. Avoid physical damage to containers. Check regularly for spills/leaks. Store away from incompatible materials and foodstuff materials.

Qualified materials: Glass lining, PVC, polypropylene, glass reinforced plastic or polyethylene.

Unsuitable materials: mild steel, aluminum or any other metals.

**7.3. Further details**

Containers will enclose product residues and vapors after being emptied. Dispose of in accordance with the regulations.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**8.2 Exposure controls**

Appropriate engineering controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. If risk of overexposure exists, wear approved respirator. Use mechanical handling to reduce human contact with the materials.

Industrial Hygiene Controls:

Good personal hygiene practices should be followed. Avoid contact with eyes, skin and clothing.

Wash hands before breaks and after work. Take bath after work. Do not eat, drink, smoke in the workplace. Use personal protective equipment.

**Individual protection measures (personal protective equipment)**

Eye/face protection: Tight sealing safety goggles. Have eye flushing equipment available. Face protection shield.

Skin protection: Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wash contaminated skin thoroughly after handling.

Hand protection: Wearing protective gloves is recommended. Suitable materials: Nitrile (rubber) PVC

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure-supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations: When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance**

Physical state:

Colour:

Odour:

**Other safety parameters**

pH (value):

Melting point/freezing point:

Initial boiling point and boiling range:

Flash point:

Evaporation rate:

Flammability (solid, gas):

Explosion limits of dust clouds:

Vapour pressure:

Density:

Vapour density:

**Solubility(ies)**

Water solubility:

**Partition coefficient**

n-octanol/water (log KOW):

Auto-ignition temperature:

Viscosity:

Explosive properties:

Oxidising properties:

**9.2 Other information**

Surface tension:

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

May be corrosive to metals.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

None under normal processing.

May react with steel and aluminum.

**10.4 Conditions to avoid**

Extremes of temperature and direct sunlight.

**10.5 Incompatible materials**

Strong oxidizing agents, aluminum and mild steel.

**10.6 Hazardous decomposition products**

Carbon monoxide (CO), carbon dioxide (CO2), nitrogen oxides (NOx), phosphorus oxides (PxOy), phosphines.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Toxicology data**

Product not tested. The report is based on the properties of each element.

• Skin: LD50 Dermal (Rabbit): >1650 mg/kg.

• Ingestion: LD50 Oral (Rat): 940 mg/kg.

• Inhalation: LD50 (rat) >5,000 mg/Kg.

• Irritancy: Mild irritation of skin & eyes.

**Acute effects**

• Skin contact: Slight irritation.

• Eye contact: Slight irritation.

• Inhalation: Not Classified.

• Ingestion: Slightly toxic.

**Chronic effects**

• Sensitization: No data available.

• Carcinogenicity: No data available.

• Reproductive toxicity: No adverse effect.

• Teratogenicity: No data available.

• Mutagenicity: No data available.

• Toxicologically synergistic products : No data available.

**11.2 Specific target organ toxicity - single exposure:** No data available.

**11.3 Specific target organ toxicity - repeated exposure:** No data available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

1. Aquatic toxicity: EC50 / Daphnia magna / 48H : 527 mg/l.

2. Toxicity to algae: EC50 / Selenastrum capricornutum / 96H : 9.16 mg/l.

3. Toxicity to fish: LC50 / Rainbow trout / 96H : 368 mg/l.

Product not tested. The report is based on the properties of each element.

**12.2 Persistence and degradability**

Persistence and degradability in soil/water : Closed bottle BOD30/COD 5% - Degrades after acclimatization.

Product not tested. The report is based on the properties of each element.

**12.3 Bioaccumulative potential**

Not expected to bioaccumulate.

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

Not available as chemical safety assessment not required/not conducted.

**12.6 Other adverse effects**

No data available.

**SECTION 13: Disposal consideration**

Disposal Method: Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations.

For Large Spills: Contain material and call local authorities for emergency assistance.

Product Disposal: Dispose of at a supervised incineration facility or an appropriate waste disposal facility according to current applicable local, state and federal laws, regulations and product characteristics at time of disposal.

Empty Container: Contaminated container should be labeled and disposed in accordance to local, state and federal laws and regulations.

General Comments: Refer to section 6.

**SECTION 14: Transport information**

**14.1 UN number**

No data available.

**14.2 UN proper shipping name**

No data available.

**14.3 Transport hazard class(es)**

No data available.

DOT Not regulated

IMDG Not regulated

IATA Not regulated

**14.4 Packing group**

No data available.

**14.5 Environmental hazards**

Non-environmentally hazardous according to the dangerous goods regulations.

**14.6 Special precautions for user**

There is no additional information.

**14.7 Transport label**

[](https://vi.wikipedia.org/wiki/T%E1%BA%ADp_tin:UN_transport_pictogram_-_8.svg)

**SECTION 15: Regulatory information**

No data available.

**SECTION 16: Other information**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.