**1. Identification of the substance/ mixture and of the company/ undertaking**

**1.1. Product identifier**

Trade name: HUNTEX TV-002

Chemical Name: Mixture.

**1.2. Recommended use of the chemical and restrictions on use**

Recommended use : Textile auxiliary.

Non-recommended : none known.

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

Company : HUNG XUONG CHEMICAL CO., LTD.

Telephone : +84 272 377 8055/56

Telefax : +84 272 377 80

E-mail : info@hungxuong.com

**1.4. Emergency telephone number**

Emergency : +84 272 377 8055

Information :

**2. Hazards identification**

**2.1. Classification of the substance or mixture**

**GHS Classification and classification according to Regulation on classification and labeling of chemicals – Circular Number 32/2017/TT-BCT**

Mixture

**2.2. Label elements**

**GHS Label elements**

Hazard pictograms : GHS07 

Signal word : Danger

Hazard statement : H302 **Harmful if swallowed.**

H316 **Causes mild skin irritation.**

H319 **Causes serious eye irritation**.

H402 **Harmful to aquatic life**.

Precautionary statement :

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 : Store in a well-ventilated place. Keep container tightly closed.

Disposal : P501 Dispose of contents/container to industrial combustion plant.

**2.3. Other hazards**

None known

**3. Composition/information on ingredients**

**3.1. Substance**

**-**

**3.2. Mixture**

Information on ingredients / Hazardous components

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

**4. First aid measures**

**4.1. Description of first aid measures**

General advice : If medical advice is needed, provide SDS document to physician.

Inhalation : Remove the victim from exposure or move to well- ventilated area. If there is difficulty in breathing, medical advice is required.

Skin contact : After contact with skin, wash with plenty of soap and water.

Remove contaminated clothing, shoes and leather accessories.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persist –Get medical advice/ attention.

Ingestion : In case of swallowing, rinse mouth with water, drink plenty of water. If feel unwell, seek medical advice.

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

Symptoms : no special hints

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

Treat symptomatically.

**5. Fire-fighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media : fine water spray, foam, dry powder, CO2.

Unsuitable extinguishing media : no data available.

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

In the event of fire the following can be released: Carbon monoxide (CO), carbon dioxide, nitrogen oxides (NOx), phosphorus oxides (PxOy), phosphines.

**5.3. Advice for firefighters**

On burning will emit toxic fumes, fire fighter should wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapor or product of combustion.

**6. Accidental release measures**

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

Use personal protective equipment. Avoid slippery, do not touch or walk through spilled material.

**6.2. Environmental precautions**

Take up and fill into a closable container. Prevent run off into drains and waterways.

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

Take up liquid spill into absorbent material, eg: soil, sand and other non-flammable absorbent

material.

**7. Handling and storage**

**7.1. Precautions for safe handling**

Advice on safe : wear protective equipment, wear safety goggles when working handling.

Hygiene measures : Do not eat, drink or smoke when working. Wash hands before breaks and after work.

General protective : Do not inhale gases/ vapours/ aerosols. Avoid contact with eyes measures skin.

**7.2. Condition for safe storage, including any incompatibilities**

**Prevention of fire and explosion**

Information : no special measures required.

**Storage**

Information : none

Further Information on storage conditions:

Keep container tightly closed and store in a cool, temperature 15-25°c, dry well- ventilated location. Store away from heat,flames, ignition sources and incompatibles.Avoid contact with alkalis, oxidizing agents. Check regularly for leaks.

**8. Exposure controls / Personal protection**

**8.1. Control parameters**

Exposure limit(s) :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Ingredient | CAS-No | Statutory basis | Value type (From of exposure; Expressed as) | Occupational exposure limit |
|  |  |  |  |  |
|  |  |  |  |

**8.2. Exposure controls**

Appropriate : operate in well- ventilated area.

Engineering controls

Personal protective equipment

Eye protection : wear safety goggles.

Hand protection : protective gloves.

Body protection : protective working clothes and safety shoes.

Respiratory protection : wear respirator.

Hygiene measures : keep away from foodstuff. Always wash hands before eating, drinking, smoking. Wash contaminated clothing and other protective equipment before storage or re-use.

**9. Physical and chemical properties**

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

Physical state or appearance : liquid

Color : colorless.

Odor : characteristic

Odor Threshold : no data available.

pH of 1% liquid (25°c) : no data available

Melting point : no data available.

Boiling point : no data available.

Flash point : no data available.

Evaporation rate : no data available.

Flammability : no data available.

Upper Explosion/Ignition limit: no data available.

Lower explosion limit : no data available.

Vapour pressure : no data available.

Relative vapour : no data available.

Relative density : no data available.

Solubility : soluble in water.

Partition coefficient : no data available.

(n-octanol/water)

Autoignition temperature : no data available.

Thermal decomposition : no data available.

Viscosity, kinematic : no data available.

Viscosity, Dynamic : no data available.

Oxidizing properties : no data available.

**9.2. Other Information**

Density : no data available.

Metal corrosion : no data available.

**10. Stability and reactivity**

**10.1. Reactivity**

May be corrosive to metals.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

None under normal processing.

May react with steel and aluminum.

**10.4 Conditions to avoid**

Heat, flames, ignition sources and incompatibles.

**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 may form when heated to decomposition.

**11. Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity (oral) : not classified.

Acute toxicity : not classified.

(inhalation)

Acute toxicity (dermal) : not classified.

Irritation/corrosion : not classified.

of the skin

Serious eye damage/ : not classified.

eye irritation

Repeated dose toxicity : not classified.

**CMR assessment**

Carcinogenicity : not classified.

Mutagenicity : not classified.

Teratogenicity : not classified.

Toxicity to reproduction : not classified.

Specific Target Organ : not classified.

Toxicity-single exposure

Specific Target Organ : not classified.

Toxicity-Repeated exposure

Aspiration hazard : not classified.

**12. Ecological information**

**12.1. Ecotoxicity**

No data available.

**12.2. Persistence and degradability**

Biodegradability : No data available

Biochemical oxygen demand (BOD5): Degrades after acclimatization.

Chemical oxygen demand (COD): No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Other adverse effects**

No data available.

**13. Disposal considerations**

**13.1 Waste treatment methods**

Waste from residue: Disposal should be in accordance with local regulations and legislation. Contaminated packaging: Dispose of empty contaminated containers in accordance with regulations and legislation.

**14. Transport information**

**D.O.T Road/Rail**

UN number : not applicable.

UN Proper Shipping Name : not applicable.

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

Transport hazard class(es) : not applicable.

Packing group : not applicable.

Environmental hazards (Marine pollutant): not applicable.

Transport in bulk : not applicable.

Special precaution for user : not applicable.

**Air transport ICAO-TI/IATA-DGR**

UN number : not applicable.

UN proper shipping name : not applicable.

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

Transport hazard class(es) : not applicable.

Packing group : not applicable.

Environmental hazards : not applicable.

Transport in bulk : not applicable.

Special precaution for user : not applicable.

**Sea transport IMDG**

UN number : not applicable.

UN proper shipping name : not applicable.

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

Transport hazard class(es) : not applicable.

Packing group : not applicable.

Environmental hazards ( Marine pollutant): not applicable.

Transport in bulk : not applicable.

Special precaution for user : not applicable.

**15. Regulatory information**

**15.1 Safety, health and environmental regulations/ legislation specific for the**

**substance or mixture.**

* Regulation on classification and labeling of chemicals - Circular Number 32/2017/TT-BCT. Date issued: 28/12/2017.
* Regulations on the list of hazardous industrial goods to be packed in the process of transporting and transporting dangerous industrial goods by road, rail and inland waterway transport - number: 44/2012/TT-BCT - Date issued 28/12/2012.
* National technical standard for ambient air quality - QCVN05:2013/BTNMT.
* National technical regulation on some hazardous substances in the surrounding air - QCVN06:2009/BTNMT.
* Regulations on the labeling of chemicals based on GHS according to Circular No. 32/2017/BCT.
* Decision, No.3733/2002/QD-BYT.

**16. Other information**

The information in the sheet were written based on the best knowledge and experience currently available but without liability.

SDS prepared on : 26/09/2022.

Revision date : 26/09/2022.

Version 1.0

Legend

TWA: Time Weighted Average.

STEL: Short term exposure limit.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Dangerous Goods.

Acute tox. 4: Acute toxicity - Oral, hazard category 4.

Eye Dam./Irrit. 2A: Serious Eye Damage/Irritation, hazard category 2A.

Eye Dam./Irrit. 2B: Serious Eye Damage/Irritation, hazard category 2B.

Skin Corr./Irrit. 3: Skin corrosion/Irritation, hazard category 3.

Aquatic Acute 2: Acute hazards to the aquatic enviroment, hazard category 2.