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

**1.1. Product identifier**

Trade name : HUNTEX CD-102

Chemical Name : Mixture of organic salts.

**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**

Corrosive to metals : Category 1

Skin corrosion/irritation : Category 3

**2.2. Label elements**

**GHS Label element**

Hazard pictograms :



Signal word : WARNING

Hazard statement :

H290- May be corrosive to metals.

H316- Causes mild skin irritation

Precautionary statement:

Prevention :

P234- Keep only in original container.

Response :

P390- Absorb spillage to prevent material damage

P332+P313- If skin irritation occurs. Get medical advice/ attention.

Storage :

P406- Store in corrosive resistant container or plastic drum.

Disposal :

No special measures required.

**2.3. Other hazards**

None known

**3. Composition/information on ingredients**

**3.1. Substance**

**-**

**3.2. Mixture**

Information on ingredients / Hazardous components

Bảng 1: nguyên liệu ban đầu

|  |  |  |  |
| --- | --- | --- | --- |
| Chemical Name | CAS-No | Concentration (%) | Classification GHS |
|  |  |  |  |
| Hydroxylethylene-1,1 diphosphonic acid  (HEDP 60%-H35) | 2809-21-4 | 3 | Met. Corr.1, H290  Eye Irrt.2, H319 |
| Methylene phosphonic acid  (DTPMPA 50%-H36) | 15827-60-8 | 1.7 | Met. Corr.1, H290  Skin Irrit.2, H315  Eye Dam.1, H318. |
| Xút vảy-H22 |  | 2.8 | Skin Corr.1, H314 |
| Urea |  | 3.3 | Not classified. |
| Muối |  | 1.7 | Not classified. |

Bảng 2: Các thành phần của sản phẩm SP-102

|  |  |  |  |
| --- | --- | --- | --- |
| Sản phẩm có thể tạo thành sau pư với xút | CAS-No | Concentration (%) | Classification GHS |
|  |  |  |  |
| [Tetrasodium (1-hydroxyethylidene)bisphosphonate](https://echa.europa.eu/substance-information/-/substanceinfo/100.021.153) | 3794-83-0 | 2.9 | Acute Tox.4, H302  Eye Irrt.2, H319 |
| Diethylene triamine penta (methylene phosphonic acid) hepta sodium salt | 22042-96-2 | 1.1 | Met. Corr.1, H290  Skin Irrit.2, H315  Eye Irrt.2, H319  Aquatic Chronic 4, H413 |
| Urea |  | 3.3 | Not classified. |
| Muối |  | 1.7 | Not classified. |

**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. Immediately call a POISON CENTER or doctor/ physician.

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, CO 2

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, carbon dioxide.

**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. handling working.

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

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

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

**Prevention of fire and explosion**

Information : no special measures required.

**Storage**

Information : May be corrosive to metals.

Further Information on storage conditions:

Store in corrosive resistant container or plastic drum, not suitable with metals.Keep container tightly closed and store in a cool, dry well- ventilated location.Store away from heat, flames, ignition sources and incompatibles.Avoid contact with strong acids, alkalis, oxidizing agents. Check regularly for leaks.

**8. Exposure controls / Personal protection**

**8.1. Control parameters**

Exposure limit(s) :

Contains no substances with occupational exposure limit values.

**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 : yellowish.

Odor : no odor

Odor Threshold : no data available.

pH of liquid (25°c) : 5.-7.

Melting point : no data available.

Boiling point : no data available.

Flash point : > 95°c

Evaporation rate : no data available.

Flammability : no data available.

Upper Explosion/Ignition limit: no data available.

Lower explosion limit : no data available.

Vapor pressure : no data available.

Relative vapor : no data available.

Relative density : no data available.

Solubility : soluble in water.

Partition coefficient : no data available.

(n-octanol/water)

Autoignition : no data available.

temperature

Thermal : no data available.

decomposition

Viscosity, kinematic : no data available.

Viscosity, Dynamic : no data available.

Oxidizing properties : no data available.

**9.2. Other Information**

Density : 0.99- 1.0 g/cm3.(25°c)

Metal corrosion : may be corrosive to metals.

**10. Stability and reactivity**

**10.1. Reactivity**

Stable in normal room temperature.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reacts with steel and aluminium.

**10.4 Conditions to avoid**

Heat, flames, ignition sources and incompatibles.

**10.5. Incompatible materials**

Avoid contact with strong alkalis and oxidizing agents.

**10.6 Hazardous decomposition products**

Carbon dioxide, carbon monoxide, phosphorus oxides, phosphine and nitrogen oxides 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 : Causes mild skin irritation.

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**

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**

Not classified as dangerous goods for transport

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

UN number : not applicable.

UN Proper Shipping Name: not applicable.

Hazard label: 

Transport hazard class(es): class 8.

. 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.

Hazard label: 

Transport hazard class(es): class 8.

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.

Hazard label: 

Transport hazard class(es): class 8.

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
* Regulation on classification and labeling of chemicals - Number :04/2012/TT-BCT - Date issued :13/02/2012
* 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
* 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: October 19, 2020

Revision date : Oct 19, 2020

Version 1.0

Legend

TWA: Time Weighted Average

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods

Met Corr 1: Corrosive to metals, category 1

Acute Tox.4: Acute toxicity, category 4

Eye Irrt.2: eye irritation, hazard category 2.

Eye Dam.1: eye damage, hazard category 1.

Skin Irrit.2 : skin irritation, hazard category 2.

Aquatic Chronic 4: aquatic chronic, category 4.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H413: May cause long-lasting harmful effects to aquatic life.