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

**1.1. Product identifier**

Trade name : CGMTK-142

Chemical Name : : mixture of reducing agents.

**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 - Number 04/2012/TT-BCT.**

Self-heating substances/mixtures : Category 2

Acute toxicity-Oral : Category 4

Skin corrosion/irritation : Category 2.

Serious eye damage/eye irritation : Category 1.

Acute toxicity-Inhalation - Dusts and Mists : Category 4.

Specific target organ toxicity - (single exposure) : Category 3

Specific target organ toxicity - (repeated exposure) : Category 2

**2.2. Label elements**

**GHS Label elements**  

Hazard pictograms :



Signal word : DANGER

Hazard statement :

H252 - Self-heating in large quantities; may catch fire

H302 - Harmful if swallowed

H315 - Causes skin irritation

H335 - May cause respiratory irritation

H332 - Harmful if inhaled

H318 - Causes serious eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statement:

Prevention :

P235 + P410 - Keep cool. Protect from sunlight

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

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

Response :

P310 - Immediately call a POISON CENTER or doctor/ physician

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

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

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Storage :

P407-Maintain air gap between stacks/pallets.

P420- Store away from other materials.

P403 + P233- Store in a well-ventilated place. Keep container tightly closed.

P405- Store locked up.

Disposal :

P501- Disposal of contents / container in accordance with national

regulations.

**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 |
| Methanesulfonic acid, aminoimino- | 1758-73-2 | 50 | Self-heating substances/mixtures 2,H-252  Skin corrosion/irritation 2, H-315.  Serious eye damage/eye irritation 1, H-318. Acute toxicity-Oral 4,H-302. Acute toxicity-Inhalation - Dusts and Mists 4, H-332. Specific target organ toxicity - (single exposure) 3, H-335. Specific target organ toxicity - (repeated exposure) 2,H-373 |
| Sodium Sulfate | 7757-82-6 | 50 | 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. If eye irritation persist –Get medical advice/ attention .

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

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

Delayed/Immediate effects: Long-term inhalation of excessive dust may cause delayed

lung injury.

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

Treat symptomatically

Immediate/Special Treatment: Eye wash stations should be available

**5. Fire-fighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media : fine water spray, foam, dry powder, CO 2

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

In the event of fire the following can be released: carbon monoxide, carbon dioxide, sulphur oxides

**5.3. Advice for firefighters**

On burning, fire fighter should wear self-contained breathing apparatus if risk of exposure to

product of combustion.

**6. Accidental release measures**

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

Use personal protective equipment. Do not touch or walk through spilled material.

Do not create dust.

**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**

Clean-Up Procedures: Collect as much as possible for use or disposal in a properly labeled container. Flush remainder into normal drainage with copious amounts of water.

**7. Handling and storage**

**7.1. Precautions for safe handling**

Advice on safe : wear protective equipment when working. Ensure there is

handling sufficient ventilation in the area. Avoid generating dust.

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 and

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, dry well- ventilated location.Store away from heat, flames, ignition sources and incompatibles, keep away from direct sunlight. Avoid contact with water and humidity. . Check regularly for leaks. Store locked up.

**8. Exposure controls / Personal protection**

**8.1. Control parameters**

Exposure limit(s)

\_

**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 : wear respirator

protection

**9. Physical and chemical properties**

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

Physical state or appearance: solid.

Color : white powder.

Odor : Mild

Odor Threshold : no data available.

pH of 1% liquid (25°c) : 4.5-6.5.

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 vapuor : 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 : no data available

Metal corrosion : no data available.

**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**

Violent reactions possible with: nitrites

Exothermic reaction with: Oxidizing agents

Generates dangerous gases or fumes in contact with: acids

**10.4 Conditions to avoid**

Conditions to Avoid: Direct sunlight, moist air and humidity.

**10.5. Incompatible materials**

Avoid contact with strong acids and oxidizing agents

**10.6 Hazardous decomposition products**

No dangerous decomposition products known.

**11. Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity (oral) : harmful if swallowed.

Acute toxicity : harmful if inhaled.

(inhalation)

Acute toxicity (dermal) : not classified.

Irritation/corrosion : Causes skin irritation.

of the skin

Serious eye damage/ : Causes serious eye damage.

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 : May cause respiratory iritation.

Toxicity-single exposure

Specific Target Organ : May cause damage to organs through prolonged or repeated exposure

Toxicity-Repeated exposure

Aspiration hazard : not classified.

**12. Ecological information**

**Ecotoxicology Assessment**

Acute aquatic toxicity: No data available.

**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**

Soluble in water.

**12.5. Other adverse effects**

Discharge into the environment must be avoided

**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: not applicable.

Transport hazard class (es): not applicable.

. Packing group : 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.

Transport hazard class(es): not applicable.

Packing group : 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: not applicable.

Transport hazard class(es): not applicable.

Packing group : not applicable.

Environmental hazards (Marine pollutant): yes

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 - 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: December 15, 2020

Revision date : December 18, 2020

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

Self-heating substances/mixtures.4: Self-heating substances/mixtures, hazard category 4

Acute Toxicity-Oral.4: Acute toxicity oral, hazard category 4

Acute toxicity-Inhalation 4: Acute toxicity Inhalation , hazard category 4

Skin Irrit.2: Skin irritation, hazard category 2

Eye Irrit.1: eye irritation, hazard category 1

STOT SE.3: Specific target organ toxicity - (single exposure) hazard category 3

STOT RE. 2: Specific target organ toxicity - (repeated exposure) hazard category 2

H252 - Self-heating in large quantities; may catch fire

H302 - Harmful if swallowed

H315 - Causes skin irritation

H335 - May cause respiratory irritation

H332 - Harmful if inhaled

H318 - Causes serious eye damage

H373 - May cause damage to organs through prolonged or repeated exposure