SAFETY DATA SHEET
Arsenic trioxide
CHENZHOU CHENXI METAL CO., LTD

According to GHS (Eighth Revised Edition)

Section 1  Product and Company Identification

> Product Identifier
  Product Name  Arsenic trioxide
  Synonyms  -
  CAS No.  1327-53-3
  EC No.  215-481-4
  Molecular Formula  As2O3

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against
  Relevant Identified Uses  Please consult manufacturer.
  Uses Advised Against  Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet
  Applicant Name  Chenzhou Chenxi Metal Co., Ltd
  Application Address  ShuixieHuating, Qingnian Ave, Chenzhou, Hunan, China
  Applicant Post Code  426333
  Applicant Telephone  +86-735-8；9: <9
  Applicant Fax  +86-735-2659836
  Applicant E-mail  386336012@qq.com
  Supplier Name  Chenzhou Chenxi Metal Co., Ltd
  Supplier Address  ShuixieHuating, Qingnian Ave, Chenzhou, Hunan, China
  Supplier Post Code  426333
  Supplier Telephone  +86-735-8；9: <9
  Supplier Fax  +86-735-2659836
  Supplier E-mail  vdhWcfkhqkrxrphdfrp

> Emergency Phone Number
  Emergency Phone Number  +86-735-5886796

Section 2  Hazards Identification

Hazard class and label elements of the product according to GHS (the eighth revised edition):

> GHS Hazard Class
  Acute Toxicity – Oral  Category 2
Skin Corrosion/Irritation Category 1
Eye Damage/Irritation Category 1
Carcinogenicity Category 1
Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard Category 1
Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard Category 1

> GHS Label Elements

Pictogram

Signal Word Danger

> Hazard Statements

H300 Fatal if swallowed
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H350 May cause cancer
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

> Precautionary Statements

Prevention
P203 Obtain, read and follow all safety instructions before use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash contact area thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/protection/eye protection/face protection/hearing protection.

Response
P316 Get emergency medical help immediately.
P317 Get medical help.
P318 IF exposed or concerned, get medical advice.
P321 Specific treatment (see measures on this label).
P330 Rinse mouth.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P301+P316 IF SWALLOWED: Get emergency medical help.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact
lesens, if present and easy to do. Continue rinsing.

Storage
P405
Store locked up.

Disposal
P501
Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration (weight percent, %)</th>
<th>CAS No.</th>
<th>EC No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic trioxide</td>
<td>Commercial secrets</td>
<td>1327-53-3</td>
<td>215-481-4</td>
</tr>
</tbody>
</table>

Section 4 First Aid Measures

Description of First Aid Measures

General Advice
Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

Eye Contact
Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

Skin Contact
Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Inhalation
Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

Protecting of First-aiders
Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most Important Symptoms and Effects, both Acute and Delayed
1. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of Any Immediate Medical Attention and Special Treatment Needed
1. Treat symptomatically.
2. Symptoms may be delayed.

Section 5 Fire Fighting Measures

Extinguishing Media

Suitable Extinguishing Media
Dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable Extinguishing Media
Do not use a solid water stream as it may scatter or spread fire.

Specific Hazards Arising from the Substance or Mixture
1. May emit poisonous fumes on fire.
2. Containers may explode when heated.
3. Fire exposed containers may vent contents through pressure relief valves.
4. May expansion or decompose explosively when heated or involved in fire.

Advice for Firefighters
As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

Fight fire from a safe distance, with adequate cover.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

### Section 6  Accidental Release Measure

#### Personal Precautions, Protective Equipment and Emergency Procedures

1. Ensure adequate ventilation. Remove all sources of ignition.
2. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
3. Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

#### Environmental Precautions

1. Prevent further leakage or spillage if safe to do so.
2. Discharge into the environment must be avoided.

#### Methods and Materials for Containment and Cleaning Up

1. Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
2. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
3. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

### Section 7  Handling and Storage

#### Precautions for Handling

1. Handling is performed in a well ventilated place.
2. Wear suitable protective equipment.
3. Avoid contact with skin and eyes.
4. Keep away from heat/sparks/open flames/ hot surfaces.
5. Take precautionary measures against static discharges.

#### Precautions for Storage

1. Keep containers tightly closed.
2. Keep containers in a dry, cool and well-ventilated place.
3. Keep away from heat/sparks/open flames/ hot surfaces.
4. Store away from incompatible materials and foodstuff containers.

### Section 8  Exposure Controls/Personal Protection

#### Control Parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>Country/Region</th>
<th>Limit Value - Eight Hours</th>
<th>Limit Value - Short Term</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ppm</td>
<td>mg/m³</td>
</tr>
<tr>
<td>Arsenic</td>
<td>The Netherlands</td>
<td>-</td>
<td>0.025</td>
</tr>
</tbody>
</table>
Biological Limit Values
No information available

Monitoring Methods
1. EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2. GBZ/T 160 Determination of toxic substances in workplace air (Series effective standard) and GBZ/T 300 Determination of toxic substances in workplace air (Series standard).

Engineering Controls
1. Ensure adequate ventilation, especially in confined areas.
2. Ensure that eyewash stations and safety showers are close to the workstation location.
3. Use explosion-proof electrical/ventilating/lighting/equipment.
4. Set up emergency exit and necessary risk-elimination area.

Personal Protection Equipment

Eye Protection
Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).

Hand Protection
Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.

Respiratory protection
If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Skin and Body Protection
Wear fire/flame resistant/retardant clothing and antistatic boots.

Section 9  Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance: White powder</td>
<td></td>
</tr>
<tr>
<td>Odor: No information available</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold: No information available</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point (℃): 275~313</td>
<td></td>
</tr>
<tr>
<td>Flash Point (℃)( Closed Cup): Not applicable</td>
<td></td>
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<tr>
<td>Flammability: No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure (KPa): Not applicable</td>
<td></td>
</tr>
<tr>
<td>Relative Density(Water=1): 3.7~4.2</td>
<td></td>
</tr>
<tr>
<td>n-Octanol/Water Partition Coefficient: No information available</td>
<td></td>
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<tr>
<td>Decomposition Temperature (℃): No information available</td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity (mm²/s): Not applicable</td>
<td></td>
</tr>
<tr>
<td>Relative Vapour Density (Air = 1): Not applicable</td>
<td></td>
</tr>
<tr>
<td>Solubility: Partly miscible with water</td>
<td></td>
</tr>
<tr>
<td>Auto-Ignition Temperature(℃): No information available</td>
<td></td>
</tr>
</tbody>
</table>

Section 10  Stability and Reactivity

Reactivity
Contact with incompatible substances can cause decomposition or other chemical reactions.

Chemical Stability
Stable under proper operation and storage conditions.

Possibility of Hazardous Reactions
Reacts with active metals and poses an explosive potential or fire.
Conditions to Avoid
Incompatible materials, heat, flame and spark.

Incompatible Materials
Active metal, alcohols, aldehydes, carbon disulfide, carbon, sulfur, phosphorus, boron, reducing agents, metallic acetylenes and metallic carbonates.

Hazardous Decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11  Toxicological Information

> Acute Toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>LD_{50}(Oral)</th>
<th>LD_{50}(Dermal)</th>
<th>LC_{50}(Inhalation, 4h)</th>
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</thead>
<tbody>
<tr>
<td>Arsenic trioxide</td>
<td>1327-53-3</td>
<td>14.6mg/kg(Rat)</td>
<td>No information available</td>
<td>No information available</td>
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</tbody>
</table>

> Skin Corrosion/Irritation
Causes severe skin burns and eye damage(Category 1)(Arsenic trioxide)

> Serious Eye Damage/Irritation
Causes serious eye damage(Category 1)(Arsenic trioxide)

> Skin Sensitization
No information available

> Respiratory Sensitization
No information available

> Germ Cell Mutagenicity
No information available

> Carcinogenicity

<table>
<thead>
<tr>
<th>ID</th>
<th>CAS No.</th>
<th>Component</th>
<th>IARC</th>
<th>NTP</th>
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<tbody>
<tr>
<td>1</td>
<td>1327-53-3</td>
<td>Arsenic trioxide</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

> Reproductive Toxicity
No information available

> Reproductive Toxicity (Additional)
No information available

> STOT-Single Exposure
No information available

> STOT-Repeated Exposure
No information available

> Aspiration Hazard
Section 12  Ecological Information

> Acute Aquatic Toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Fish LC₅₀</th>
<th>Crustaceans</th>
<th>Algae</th>
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<tbody>
<tr>
<td>Arsenic trioxide</td>
<td>1327-53-3</td>
<td>20.2mg/L</td>
<td>No information available</td>
<td>No information available</td>
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</tbody>
</table>

> Chronic Aquatic Toxicity

No information available

> Others

Persistence and Degradability  No information available
Bioaccumulative Potential  No information available
Mobility in Soil  No information available
Results of PBT and vPvB Assessment  Arsenic trioxide does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Section 13  Disposal Considerations

Waste Chemicals  Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated Packaging  Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal Recommendations  Refer to section 13.1 and 13.2.

Section 14  Transport Information

Marine pollutant  Yes
UN Number  1561
UN Proper Shipping Name  ARSENIC TRIOXIDE
Transport Hazard Class  6.1
Transport Subsidiary Hazard Class  NONE
Packing Group  II
> International Chemical Inventory

Section 15  Regulatory Information

<table>
<thead>
<tr>
<th>Component</th>
<th>EINECS</th>
<th>TSCA</th>
<th>DSL</th>
<th>IECSC</th>
<th>NZIoC</th>
<th>PICCS</th>
<th>KECI</th>
<th>AICS</th>
<th>ENCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic trioxide</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
</tr>
</tbody>
</table>

[EINECS] European Inventory of Existing Commercial Chemical Substances.
[TSCA] United States Toxic Substances Control Act Inventory.
[DSL] Canadian Domestic Substances List.
[IECSC] China Inventory of Existing Chemical Substances.
[NZIoC] New Zealand Inventory of Chemicals.
[PICCS] Philippines Inventory of Chemicals and Chemical Substances.
[KECI] Existing and Evaluated Chemical Substances.
[AICS] Australia Inventory of Chemical Substances.
[ENCS] Existing And New Chemical Substances.

Note
"√" Indicates that the substance included in the regulations
"×" That no data or included in the regulations

Section 16  Additional Information

Creation Date 2021/06/23
Revision Date 2021/06/23
Reason for Revision -

> Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 8th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user’s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.