OTTO CHEMIE PVT LTD

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-----ISO 9001: 2015------

MATERIAL SAFETY DATA SHEET

1.Identification 1.1GHS Product identifier C 1993 Chloroauric acid (min. 12.5% Au) 1.20ther means of identification Product number HYDROGEN IETRACHLOROAURATE Other names 1.3Recommended use of the chemical and restrictions on use Identified uses For industry use only. Uses advised against no data available 1.4Supplier's details Company XIXISys.com Address XiXisys.com XiXisys.com Telephone XiXisys.com Fax 1.5Emergency phone number Emergency phone number Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours). Service hours 2.Hazard identification 2.1Classification of the substance or mixture Acute toxicity - Oral, Category 4 Skin corrosion, Category 1B Skin sensitization, Category 1 2.2GHS label elements, including precautionary statements Pictogram(s) Signal word Danger Hazard statement(s) H302 Harmful if swallowed H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction Precautionary statement(s) Prevention P264 Wash ... thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/...if you feel unwell. Response P330 Rinse mouth. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P363 Wash contaminated clothing before reuse. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a POISON CENTER/doctor/... P321 Specific treatment (see ... on this label). P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

 P302+P352 IF ON SKIN: Wash with plenty of water/...

 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

 P362+P364 Take off contaminated clothing and wash it before reuse.

 Storage
 P405 Store locked up.

 Disposal
 P501 Dispose of contents/container to ...

 2.3Other hazards which do not result in classification

none

3.Composition/information on ingredients

3.1Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
CHLOROAURIC ACID HYDRATE	CHLOROAURIC ACID HYDRATE	27988-77-8	none	100%

4.First-aid measures

4.1Description of necessary first-aid measures
General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2Most important symptoms/effects, acute and delayed
no data available
4.3Indication of immediate medical attention and special treatment needed, if necessary no data available

5.Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2Specific hazards arising from the chemical

no data available

5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6.Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7.Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8.Exposure controls/personal protection

8.1Control parameters Occupational Exposure limit values no data available Biological limit values no data available 8.2Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

no data available

9. Physical and chemical properties

Physical state	solid
Colour	no data available
Odour	no data available
Melting point/ freezing point	no data available
Boiling point or initial boiling point and	i no data available
boiling range	
Flammability	no data available
Lower and upper explosion limit /	no data available
flammability limit	
Flash point	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
рН	no data available
Kinematic viscosity	no data available
Solubility	no data available
Partition coefficient n-octanol/water	no data available
(log value)	
Vapour pressure	no data available
Density and/or relative density	3.9g/mLat 25 °C
Relative vapour density	no data available
Particle characteristics	no data available
7	

10.Stability and reactivity

10.1Reactivity no data available 10.2Chemical stability Stable under recommended storage conditions. 10.3Possibility of hazardous reactions no data available 10.4Conditions to avoid no data available 10.5Incompatible materials no data available 10.6Hazardous decomposition products no data available

11.Toxicological information

Acute toxicity Oral: no data available Inhalation: no data available Dermal: no data available Skin corrosion/irritation no data available Serious eye damage/irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available STOT-single exposure no data available STOT-repeated exposure no data available Aspiration hazard no data available

12. Ecological information

12.1Toxicity Toxicity to fish: no data available Toxicity to daphnia and other aquatic invertebrates: no data available Toxicity to algae: no data available Toxicity to microorganisms: no data available 12.2Persistence and degradability no data available 12.3Bioaccumulative potential no data available 12.4Mobility in soil no data available 12.5Other adverse effects no data available

13.Disposal considerations

13.1Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sever systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14.Transport information

14.1UN Number		
ADH/HID: UN3260	IMDG: UN3260	IATA: UN3260
14.2UN Proper Shipping Name		
ADR/RID: CORROSIVE SOLID, ACIDIC, INOR	GANIC, N.O.S.	
IMDG: CORROSIVE SOLID, ACIDIC, INORGA	NIC, N.O.S.	
IATA: CORROSIVE SOLID, ACIDIC, INORGAN	NC, N.O.S.	
14.3Transport hazard class(es)		
ADR/RID: 8	IMDG: 8	IATA: 8
14.4Packing group, if applicable		
ADR/RID: III	IMDG: III	IATA: III
14.5Environmental hazards		
ADR/RID: no	IMDG: no	IATA: no
14.6Special precautions for user		
no data available		
14.7Transport in bulk according to Annex II of M	IARPOL 73/78 and the IBC Code	

no data available

15.Regulatory information

15.1Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
CHLOROAURIC ACID HYDRATE	CHLOROAURIC ACID HYDRATE	27988-77-8	none
European Inventory of Existing Commercial Chemical Substances (EINECS)			
C Inventory			Not Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed.
China Catalog of Hazardous chemicals 2015			
New Zealand Inventory of Chemicals (NZIOC)			
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Not Listed.
letnam National Chemical Inventory			Not Listed.
Chinese Chemical Inventory of Existing	Chemical Substances (China IECSC)		Not Listed.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.