



Page 1/5 Printing date 04/17/2018 Revision date 04/16/2018 Version 1

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USA	Suppry nesh an in required, provide anniciai respiration. Neep patient wann. Seek immediate medical advice.	(Contd on page 2)
		USA -

Product name: Gold(III) chloride	
After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	d. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Hydrogen chloride (HCI) Gold oxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: Substance is not listed. PAC-3: Substance is not listed.	
7 Handling and storage Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: The product is not flammable Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store in the dark. Store away from water/moisture. Store away from strong bases. Store away from strong bases. Store away from strong bases. Store under dry inert gas. This product is hydroscopic. Keep container tightly sealed. Store in cool, dry or ontions in well sealed containers. Protect from humidity and water. Protect from humidity and water. Protect from humidity and water.	
8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures	

Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Impervious gloves Impervious gloves

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Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Eye protection:** Tightly sealed goggles Full face protection Safety glasses with side shields / NIOSH (US) or EN 166(EU) **Body protection:** Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties

General Information Appearance: Form: Odor: Odor threshold:	Powder Odorless Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	180 °C (356 °F) (subl) 229 °C (444 °F) Not determined
Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined. Not determined Not determined Not determined.
Danger of explosion: Explosion limits: Lower: Upper:	Not determined. Not determined Not determined
Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density	Not applicable. 3.9 g/cm³ (32.546 lbs/gal) Not determined. Not applicable.
Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity:	Not applicable. Not determined Not determined.
dynamic: dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.

10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Bases Ovidizing agents Oxidizing agents Water/moisture Light Hazardous decomposition products: Hydrogen chloride (HCl) Gold oxide 11 Toxicological information Information on toxicological effects Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes serious eye damage. Sensitization: No sensitizing effects known. Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 12 Ecological information Toxicitv Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. PBT: Not opticable.

vPvB: Not applicable

(Contd. on page 4)

Other adverse effects No further relevant information available.	(Contd. of page 3)	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.		
14 Transport information		
UN-Number DOT, IMDG, IATA	UN3260	
UN proper shipping name DOT ADR IMDG, IATA	Corrosive solid, acidic, inorganic, n.o.s. (Gold(III) chloride) 3260 Corrosive solid, acidic, inorganic, n.o.s. (Gold(III) chloride) CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Gold(III) chloride)	
Transport hazard class(es) DOT		
Class Label ADR	8 Corrosive substances 8	
Class Label IMDG, IATA	8 (C2) Corrosive substances 8	
Class Label	8 Corrosive substances 8	
Packing group DOT, ADR, IMDG, IATA	III	
Environmental hazards:	Not applicable.	
Special precautions for user EMS Number: Segregation groups Stowage Category	Warning: Corrosive substances F-A,S-B Acids A	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	e Not applicable.	
Transport/Additional information: DOT		
Quantity limitations	On passenger aircraft/rail: 25 kg On cargo aircraft only: 100 kg	
Marine Pollutant (DOT):	No	
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g	
UN "Model Regulation":	UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (GOLD(III) CHLORIDE), 8, III	
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms Image: Comparison of the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Image: Comparison of the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Image: Comparison of the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Image: Comparison of the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Image: Comparison of the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Image: Comparison of the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Image: Comparison of the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Image: Comparison of the product and labeled in accordance with 29 CFR 1910 (OSHA HCS) Image: Comparison of the product and labeled in accordance with 1910 (OSHA HCS) Image: Comparison of the product and the product and product		

Air components of this product are listed on the Canadian Domestic Substances SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed.

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Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) if market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Information this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.
 Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision date and version number are in the header of each page.
 Abbreviations and acronyms:
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA)
 WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA)
 MFN: National Toxicology Program (USA)
 IAR: Anterican Construction – Category 1B
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1

USA