

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Name: Sodium Gold(I) Sulfite Solution

CAS #: 19153-98-1

Relevant identified uses of the substance: Scientific research and development

Supplier details:

Stanford Advanced Materials

E-mail: sales@samaterials.com

Tel: (949) 407-8904

Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A.

SECTION 2. HAZARDS IDENTIFICATION

Signal Word: Danger

Hazard Category:

Corrosive to metals Cat 1

Skin corrosion/irritation Cat 1

Acute tox, oral Cat 4

Acute tox, inh. Cat 4

Hazard Statements:

H290: May be corrosive to metals

H314: Causes severe skin burns and eye damage

H302: Harmful if swallowed

H332: Harmful if inhaled

P260: Do not breathe dust/fume/gas/mist/vapors/spray

P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P405: Store locked up

P501: Dispose of contents/container in accordance with local/regional/national/international rules
Hazards not otherwise classified:

To the best of our knowledge the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated. Avoid elevated temperature.

Incompatible with most metals, alkalines, metallic oxides, strong oxidants. Also water reactive materials i.e. conc. sulfuric acid, oleum & acetic

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous substance / CAS / Weight%:

Sodium gold (I) sulfite solution / 19153-98-1 / 99-100

SECTION 4. FIRST AID MEASURES

General Info: Ensure proper ventilation.

Notable Exposure symptoms: Irritation to skin, eyes and areas of contact

If ingested: Rinse mouth. Seek immediate medical attention. Clear the airway and administer artificial

respiration if not breathing.

If swallowed, do not induce vomiting unless directed to do so by medical personnel.

If inhaled: Remove the victim from the contaminated area while protecting yourself from exposure by wearing an appropriate respirator. Put a similar respirator on the victim if possible. Get medical attention immediately.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact

lenses if present and easy to do. Get medical attention immediately.

Skin contact: Take off immediately all contaminated clothing. Rinse with water thoroughly. Get medical

attention immediately.

Additional info: Observe for any symptoms for several hours after exposure. Follow up with medical attention if symptoms develop.

SECTION 5. FIREFIGHTING MEASURES

General info: Use proper safety equipment. If this product is involved in a fire Sodium sulfite and metal

oxide fume can be released.

Extinguishing Method / Equipment: Use water spray or dry chemical, carbon dioxide. DO NOT use organics

Hazardous Decomposition Info: Constituents associated with burning / combustion are to be considered toxic. Firefighters should

wear self-contained breathing apparatus and full protective gear.

Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and procedures: Keep unnecessary personnel away.

Keep people away from and upwind of spill/leak. Eliminate all

ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment (SCBA) and clothing during clean-up. Avoid breathing vapor. Ventilate

area if easy to do so and wash spill site after clean up is complete. Contact local authorities if

significant spillages cannot be contained. For personal protection, see section 8 of the

SDS. Containment Equipment and Procedures: Large Spills: Dike major spills. Absorb with liquid-binding

material (sand, diatomite, acid binders,

universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste.

Ensure

adequate ventilation

Cleanup procedures: Collect all contaminated media, or other cleanup materials into a waste receptacle. If cleaning surface is necessary, utilize vacuum cleaner, provided adequate ventilation is available.

SECTION 7. HANDLING AND STORAGE

Safe Handling Precautions: Do not handle until all safety precautions have been read and understood.

Keep containers tightly closed Ensure adequate ventilation. Avoid breathing vapor. Avoid contact with

eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment and wash thoroughly after handling.

Work/Hygienic Practices: Always use good personal hygiene after handling

Recommendations for Storage: Store in the dark. Store away from strong bases. Keep from freezing.

Keep container upright

Other precautions: 0.01 ppm high efficiency particular respirator/supplied air respirator/self-contained breathing apparatus; 0.2 ppm same as above with full face piece; 1 ppm powdered air purifying respirator with high efficiency filter/type C supplied air respirator operated in pressure demand mode.

Store in a sealed container, plastic or plastic liner, in a cool, well ventilated, dry area away from volatile

acids.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

General / Engineering Controls: Ventilation: Local Exhaust: Required in handling area

Mechanical: Desirable to insure concentration of material below TLV/TWA levels

Other: Closed ventilation system (Laboratory Fume Hood)

Work Clothing: Protective work clothing which covers skin and prevents exposures. Lab coat/apron, flame and chemical resistant protective clothing, eye wash, safety shower, and hygiene facilities for washing.

Eye/face protection: Wear safety glasses with side shields or goggles or face shield

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: NIOSH approved chemical cartridge respirator for acid gas/chlorine (42 CFR part 84) and selfcontained breathing apparatus with full face shield.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Melting Point: N/A

Freezing Point: N/A

Color: Yellow Solution

Boiling Point/Range: 105 °C

pH 8 - 10

Molecular Wt. 424.06

Odor: Slight sulfur odor

Water Solubility: soluble

Evaporation rate: N/A

Flash Point: N/A

Part. Coeff (noctanol/water) Upper Flam Limits: N/A

Lower Flam Limits: N/A

Vapor Pressure: N/A

VOC Content (lbs/gal): N/A

Viscosity: N/A

Autoignition Temp: N/A

Specific Gravity: N/A

SECTION 10. STABILITY AND REACTIVITY

General: This product is stable and non-reactive under normal conditions of use. Product is not subject

to hazardous polymerization. Avoid open flame and ignition sources. Conditions To Avoid (Stability)
Elevated temperature.

Incompatible materials: Most metals, alkalines, metallic oxides, strong oxidants. Also water reactive materials i.e conc. sulfuric acid, oleum & acetic anhydrate. Carbonates, cyanides and sulfides

Decomposition products: Sulfur Dioxide Decomposition will not occur if used and stored according to specifications

SECTION 11. TOXICOLOGICAL INFORMATION

General Information: Harmful if swallowed. Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. The RTECS contains acute toxicity data for this product

Toxicological Information (product): To the best of our knowledge, the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated.

Likely Routes of Exposure: Eye Contact Skin Contact Inhalation Ingestion - possible, but considered unlikely.

Carcinogenicity or mutagenicity: No data available

Sensitization: Product is not expected to be a sensitizer.

SECTION 12. ECOLOGICAL INFORMATION

General information: This product is manufactured in accordance to and in compliance with all aspects

of the Toxic Substances Control Act (TSCA) and that all compounds are on the TSCA inventory; This

product is also in compliance with the New Substances Notification Regulations (NSNR) and all ingredients are on the DSL/NDSL.

Aquatic toxicity: No Data Available

Degradation / Mobility info: No Data Available

Bioaccumulative potential: No Data Available

SECTION 13. DISPOSAL CONSIDERATIONS

Product disposal: Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation

Container disposal: Treat empty containers with extra care. Consult waste contractor.

Other considerations: NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate.

SECTION 14. TRANSPORT INFORMATION

DOT: proper Shipping Name

Corrosive liquid n.o.s.

Hazard Class

8

DOT Identification Number

1760

DOT Shipping Label

Corrosive liquid n.o.s.

Packaging Requirements

See DOT Regulations

IMO/IMDG: Inquire for further transport information

IATA: Same as DOT, always consult IATA manual before shipping

SECTION 15. REGULATORY INFORMATION

TSCA: All ingredients of this product are listed under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Canadian Regulatory Information: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

European Union (EU) Regulatory Information: Symbol of Danger: C

Indication of Danger: Corrosive

R: 34, 36, 37

Risk Statements: Causes burns, Irritating to eyes, Irritating to respiratory system.

S: 17 26 27 36/37 39 45

Safety Statements: Keep away from combustible material. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take off immediately all contaminated clothing. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately.

SECTION 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.