

# Safety Data Sheet per OSHA HazCom 2012

| Reviewed on 08/24/20   |
|--|
| 1 Identification   |
| Product identifier   |
| Product name: <u>Mercury(I) acetate</u><br>Stock number: B21590  |
| CAS Number:  |
| 631-60-7<br><b>EC number:</b>  |
| 211-161-3<br>Index number:   |
| 080-002-00-8<br>Relevant identified uses of the substance or mixture and uses advised against.<br>Identified use: SU24 Scientific research and development   |
| ·  |
| Details of the supplier of the safety data sheet<br>Manufacturer/Supplier:   |
| Alfa Aesar<br>Thermo Fisher Scientific Chemicals, Inc.<br>30 Bond Street   |
| Ward Hill, MA 01835-8099   |
| Tel: 800-343-0660<br>Fax: 800-322-4757   |
| Email: tech@alfa.com<br>www.alfa.com   |
| Information Department: Health, Safety and Environmental Department<br>Emergency telephone number:   |
| During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.   |
| 2 Hazard(s) identification   |
| Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)   |
| GHS06 Skull and crossbones   |
| Acute Tox. 3 H301 Toxic if swallowed.<br>Acute Tox. 3 H311 Toxic in contact with skin.   |
| Acute Tox. 2 H330 Fatal if inhaled.  |
| GHS08 Health hazard  |
| STOT RE 2 H373 May cause damage to the central nervous system, the kidneys, the reproductive system and the brain through prolonged or repeated exposure<br>Route of exposure: Oral, Inhalative.   |
| Hazards not otherwise classified No information known.<br>Label elements   |
| GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)<br>Hazard pictograms  |
|  |
| GHS06 GHS08  |
| Signal word Danger<br>Hazard statements  |
| H301+H311 Toxic if swallowed or in contact with skin.<br>H330 Fatal if inhaled.  |
| H373 May cause damage to the central nervous system, the kidneys, the reproductive system and the brain through prolonged or repeated exposure. Route of exposure: Oral, Inhalative.   |
| Precautionary statements<br>P260 Do not breathe dust/fume/gas/mist/vapours/spray   |
| P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/…<br>P320 Specific treatment is urgent (see on this label).<br>P361 Take off immediately all contaminated clothing.   |
| P405 Store locked up.  |
| P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification  |
| D1A - Very toxic material causing immediate and serious toxic effects  |
|  |
| Classification system<br>HMIS ratings (scale 0-4)  |
| Hearth       Image: Arrowski and Arrowski a |
| FIRE     I     Flammability = 1       REACTIVITY     Physical Hazard = 1   |
| Other hazards<br>Results of PBT and vPvB assessment  |
| PBT: Not applicable.<br>vPvB: Not applicable.  |
| 3 Composition/information on ingredients   |
| Chemical characterization: Substances  |
| CAS# Description:  |
| 631-60-7 Mercury(I) acetate<br>Identification number(s):<br>EC number: 211-161-3   |
| (Contd. on page<br>USA   |
|  |

(Contd. of page 1)

Index number: 080-002-00-8

Product name: Mercury(I) acetate

#### 4 First-aid measures

## Description of first aid measures

General information

Immediately remove any clothing soiled by the product. Remove breathing apparatus only after contaminated clothing has been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

After skin contact

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 Do not induce vomiting; immediately call for medical help. Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Mercury and organic compounds containing mercury Carbon monoxide and carbon dioxide 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 material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13.

Prevention of secondary hazards: No special measures required. **Reference to other sections** See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

# 7 Handling and storage

Handling Precautions for safe handling Reep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Open and handle container with care. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage

Requirements to be met by storerooms and receptacles: No special requirements. **Requirements to be met by storerooms and receptacles:** No special requirements. **Information about storage in one common storage facility:** Store away from oxidizing agents. **Further information about storage conditions:** Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. **Specific end use(s)** No further relevant information available.

# 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:

Mercury, inorganic compounds (as Hg) mg/m3 ACGIH TLV 0.025 (skin) Not classifiable as a human carcinogen Austria MAK 0.05 Belgium TWA Denmark TWA Finland TWA 0.05 (skin) 0.05 (skin) Finland TWA 1 France VME 0.1 (skin) Germany MAK 0.01 Hungary TWA 0.02; 0.04-STEL Japan OEL 0.05 Korea TLV 0.025 (skin) Not classifiable as a human carcinogen Netherlands MAC-TGG 0.05; 0.15-MAC-K (skin) Norway TWA 0.05; 0.15-STEL Russia TWA 0.05; 0.01-STEL Sweden NGV 0.05 Switzerland MAK-W 0.01 (skin) United Kingdom TWA 0.025

(Contd. on page 3)

| USA TWA 0.05<br>Additional information: No data  | ontd. of page 2)                |
|--|---------------------------------|
| Exposure controls<br>Personal protective equipment<br>General protective and hygienic measures<br>The usual precautionary measures for handling chemicals should be followed.<br>Keep away from forderbuffle, beveragees and ford  |                                 |
| Keep away from foodstuffs, beverages and feed.<br>Remove all soiled and contaminated clothing immediately.<br>Wash hands before breaks and at the end of work.<br>Store protective clothing separately.<br>Avoid contact with the eyes and skin.   |                                 |
| Maintain an ergonomically appropriate working environment.<br><b>Breathing equipment:</b> Use self-contained respiratory protective device in emergency situations.<br><b>Protection of hands:</b><br>Impervious gloves  |                                 |
| Check protective gloves prior to each use for their proper condition.<br>The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.<br><b>Eye protection:</b> Safety glasses<br><b>Body protection:</b> Protective work clothing.  |                                 |
| 9 Physical and chemical properties   |                                 |
| Information on basic physical and chemical properties<br>General Information<br>Appearance:<br>Form: Solid   |                                 |
| Odor:         Not determined           Odor threshold:         Not determined.   |                                 |
| pH-value: Not applicable. Change in condition  |                                 |
| Melting point/Melting range:         Not determined           Boiling point/Boiling range:         Not determined           Sublimation temperature / start:         Not determined  |                                 |
| Flash point:       Not applicable         Flammability (solid, gaseous)       Not determined.         Ignition temperature:       Not determined         Decomposition temperature:       Not determined         Auto igniting:       Not determined.  |                                 |
| Danger of explosion:         Product does not present an explosion hazard.           Explosion limits:         Product does not present an explosion hazard.   |                                 |
| Lower: Not determined<br>Upper: Not determined<br>Vapor pressure: Not applicable.  |                                 |
| Density:       Not determined         Relative density       Not determined.         Vapor density       Not applicable.         Evaporation rate       Not applicable.  |                                 |
| Solubility in / Miscibility with<br>Water: Slightly soluble<br>Partition coefficient (n-octanol/water): Not determined.  |                                 |
| Viscosity:       dynamic:       Not applicable.         kinematic:       Not applicable.         Other information       No further relevant information available.  |                                 |
| 10 Stability and reactivity  |                                 |
| Reactivity No information known.<br>Chemical stability Stable under recommended storage conditions.<br>Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.<br>Possibility of hazardous reactions No dangerous reactions known<br>Conditions to avoid No further relevant information available.<br>Incompatible materials: Oxidizing agents<br>Hazardous decomposition products: Carbon monoxide and carbon dioxide |                                 |
| 11 Toxicological information<br>Information on toxicological effects<br>Acute toxicity:  |                                 |
| Fatal if inhaled.<br>Fatal in contact with skin.<br>Fatal if swallowed.<br>Toxic in contact with skin.<br>Toxic if swallowed.  |                                 |
| Danger through skin absorption.<br>The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.<br>LD/LC50 values that are relevant for classification:   |                                 |
| Oral LD50 150 mg/kg (mouse)<br>175 mg/kg (rat)<br>Dermal LD50 960 mg/kg (rat)  |                                 |
| Skin irritation or corrosion: Irritant to skin and mucous membranes.<br>Eye irritation or corrosion: Irritating effect.<br>Sensitization: No sensitizing effects known.<br>Germ cell mutagenicity: No effects known.   |                                 |
| Carcinogenicity:<br>EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available.<br>IARC-3: Not classifiable as to carcinogenicity to humans.<br>ACCIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or anin  | nals                            |
| Reproductive toxicity: No effects known.   | nais.<br>ntd. on page 4)<br>USA |

| oduct name: Mercury(I) acetate  |   |
|---|---|
| Specific target organ system toxicity - repeated exposure:  | (Contd. of pag  |
| May cause damage to the central nervous system, the kidneys, th<br>Oral, Inhalative.<br>Specific target organ system toxicity - single exposure: No el<br>Aspiration hazard: No effects known.  | he reproductive system and the brain through prolonged or repeated exposure. Route of exposur<br>ffects known.  |
| Subacute to chronic toxicity:   |   |
| Subacute to chronic toxicity:   | vation with metallic taste, pain on chewing, gingevitis, colitis, stomatitis, kidney damage, and cent<br>ve or shaking movements and psychic disturbances such as memory loss, insomnia, loss of<br>result in death.  |
| The Registry of Toxic Effects of Chemical Substances (RTECS) r<br>Sense Organs and Special Senses (Eye) - retinal changes.<br>Related to Chronic Data - death   |   |
| The Registry of Toxic Effects of Chemical Substances (RTECS) of   | contains multiple dose toxicity data for this substance.<br>dge the acute and chronic toxicity of this substance is not fully known.  |
| 2 Ecological information<br>Toxicity  |   |
| Aquatic toxicity: No further relevant information available.<br>Persistence and degradability No further relevant information a<br>Bioaccumulative potential No further relevant information available.<br>Mobility in soil No further relevant information available.  | vailable.<br>able.  |
| Ecotoxical effects:<br>Remark: Verv toxic for aquatic organisms   |   |
| Additional ecological information:<br>General notes:<br>Do not allow material to be released to the environment without n   | proper governmental permits.  |
| Do not allow product to reach ground water, water course or sew<br>Danger to drinking water if even extremely small quantities leak in<br>Also poisonous for fish and plankton in water bodies.   | age system, even in small quantities.<br>nto the ground.  |
| Avoid transfer into the environment.  |   |
| Very toxic for aquatic organisms<br>Results of PBT and vPvB assessment<br>PBT: Not applicable.  |   |
| vPvB: Not applicable.   |   |
| Other adverse effects No further relevant information available.<br>B Disposal considerations<br>Waste treatment methods<br>Recommendation Consult state, local or national regulations to e<br>Uncleaned packagings:   |   |
| Other adverse effects No further relevant information available.<br>3 Disposal considerations<br>Waste treatment methods<br>Recommendation Consult state, local or national regulations to e  |   |
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| Other adverse effects No further relevant information available.<br>3 Disposal considerations<br>Waste treatment methods<br>Recommendation Consult state, local or national regulations to e<br>Uncleaned packagings:<br>Recommendation: Disposal must be made according to official r<br>4 Transport information<br>UN-Number<br>DOT, IMDG, IATA<br>UN proper shipping name<br>DOT<br>IMDG, IATA<br>Transport hazard class(es)<br>DOT<br>Class<br>Label  | UN1629<br>Mercury acetate<br>MERCURY ACETATE  |
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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)

100 III 2000 VIIII 23 OFN 1310 (USHA 1105)

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(Contd. on page 5)

Safety Data Sheet per OSHA HazCom 2012

(Contd. of page 4) Hazard pictograms GHS06 GHS08 Signal word Danger Hazard statements 

 Hazard statements

 H301+H311 Toxic if swallowed or in contact with skin.

 H300
 Fatal if inhaled.

 H373
 May cause damage to the central nervous system, the kidneys, the reproductive system and the brain through prolonged or repeated exposure. Route of exposure: Oral, Inhalative.

 Precautionary statements

 P260
 Do not breathe dust/fume/gas/mist/vapours/spray.

 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/...

 P320
 Specific treatment is urgent (see on this label).

 P361
 Take off immediately all contaminated clothing.

 P405
 Store locked up.

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

 **Pational regulations** This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. This product contains a chemical known to the state of California to cause cancer and/or reproductive toxicity. SARA Section 313 (specific toxic chemical listings) 631-60-7 Mercury(I) acetate California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity 631-60-7 Mercury(I) acetate Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: Information about limitation of use: For use only by technically qualified individuals. This product is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372. 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 much be observed. 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 Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - 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 Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (Division of the American Chemical Substances CAS: Chemical Abstracts Service (Division of the American Chemical Substances CAS: Chemical Abstracts Service (Division of the American Chemical Substances CAS: Chemical Abstracts Service (Division of the American Chemical Substances CAS: Chemical Abstracts Service (Division of the American Chemical Substances CAS: Chemical Abstracts Service (Division of the American Chemical Substances CAS: Chemical Abstract Service (Division of the American Chemical Substances CAS: Chemical Abstraction, 50 percent USO: Lethal concentration, 50 percent USO: Lethal concentration, 50 percent USO: Lethal concentration divisition (USA) MTP: National Astery and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)