

SAFETY DATA SHEET

Date Printed: 05/11/2024 **Date Revised:** 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifier: (2N) 99% CulnGaSe

Product Code: CUIN-GASE-02-C

CAS Number: N/A

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551

Fax: +1 310-208-0351

Emergency telephone number:

+1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Hazard description:

T Toxic



N Dangerous for the environment

Information pertaining to particular dangers for man and environment

R 23/25 Toxic by inhalation and if swallowed.

R 33 Danger of cumulative effects.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment

Classification system

HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)

HEALTH 3

FIRE 0

REACTIVITY 1

Health (acute effects) = 3

Flammability = 0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:

Description: (CAS#) Selenium - 7782-49-2 Copper - 7440-50-8 Indium - 7440-74-6 Gallium - 7440-55-3

SECTION 4. 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.

If inhaled:

Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

In case of skin contact:

Immediately wash with soap and water; rinse thoroughly. Seek immediate medical advice.

In case of eye contact:

Rinse opened eye for several minutes under running water. Consult a physician.

If swallowed:

Do not induce vomiting; immediately call for medical help. Seek immediate medical advice.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing agents

Product is not flammable. Use fire fighting measures that suit the surrounding fire.

Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released: Toxic metal oxide fume

Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:

Use personal protective equipment. Keep unprotected persons away. Ensure adequate ventilation Measures for environmental protection:

Do not allow material to be released to the environment without official permits.

Measures for cleaning/collecting:

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

Additional information:

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Handling

Information for safe handling:

Keep 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: The product is not flammable

Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Store away from water/moisture.

Do not store together with acids.

Further information about storage conditions: Keep container tightly sealed.

Store in cool, dry conditions in well-sealed containers. Protect from humidity and water.

SECTION 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. Components with limit values that require monitoring at the workplace.

Selenium and selenium compounds (as Se)

mg/m3

ACGIH TLV 0.2

Austria MAK 0.1

Belgium TWA 0.2

Denmark TWA 0.1

Finland TWA 0.1; 0.3-STEL

Germany MAK 0.1

Hungary 0.1-STEL

Ireland TLV 0.1

Japan OEL 0.1

Korea TLV 0.2

Netherlands MAC-TGG 0.1

Poland TWA 0.1; 0.3-STEL

Sweden NGV 0.1

Switzerland MAK-W 0.1

United Kingdom TWA 0.1

USA PEL 0.2

Additional information: No data Personal protective equipment

Follow typical protective and hygienic practices for handling chemicals.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Breathing equipment:

Use suitable respirator when high concentrations are present.

Protection of hands: Impervious gloves

Inspect gloves prior to use.

Material of gloves: The selection of suitable gloves not only depends on the material, but

also on quality. Quality will vary from manufacturer to manufacturer.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form:

Color: Silvery

Odor: No data available

Melting point/Melting range: No data available Boiling point/Boiling range: No data available Sublimation temperature / start: No data available

Flash point: N/A

Ignition temperature: No data available

Decomposition temperature: No data available

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: No data available Upper: No data available

Vapor pressure: No data available

Density No data available Solubility in / Miscibility with

Water: Insoluble

SECTION 10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Materials to be avoided: Water/moisture, Acids

Dangerous reactions No dangerous reactions known

Dangerous products of decomposition: Toxic metal oxide fume

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenicity:

NTP? No

IARC Monographs? No OSHA Regulated? No

LD 50/LC 50: No toxicity data recorded

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxical effects:

Remark: Very toxic for fish

General notes:

Do not allow product to reach groundwater, water courses, or sewage systems, even in small

quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Do not allow material to be released to the environment without official permits.

Very toxic for aquatic organisms

SECTION 13. DISPOSAL CONSIDERATIONS

Consult official regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

SECTION 14. TRANSPORT INFORMATION

Not a hazardous material for transport.

No IATA regulations.

SECTION 15. REGULATORY INFORMATION

Product related hazard informations:

Hazard symbols:

T Toxic

N Dangerous for the environment

Risk phrases:

23/25 Toxic by inhalation and if swallowed.

33 Danger of cumulative effects.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases:

20/21 When using do not eat, drink or smoke.

28 After contact with skin, wash immediately with plenty of water

45 In case of accident or if you feel unwell, seek medical advice immediately.

60 This material and its container must be disposed of as hazardous waste.

61 Avoid release to the environment. Refer to special instructions/Safety data sheets National regulations

All components of this product are listed in the U.S. Environmental

Protection Agency Toxic Substances Control Act Chemical substance

Inventory.

Information about limitation of use:

For use only by technically qualified individuals.

This product contains selenium and is subject to the reporting

requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

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. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.