

SAFETY DATA SHEET

Date Printed: 05/03/2024 Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifier: (2N) 99% Triethoxy(octyl)silane

Product Code: SI-OMX-02

CAS Number: 2943-75-1

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

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Skin irritation (Category 2), H315 GHS Label elements, including precautionary statements Pictogram



Signal Word Warning Hazard statement(s) H315 Causes skin irritation. Precautionary statement(s) P264 Wash skin thoroughly after handling. P280 Wear protective gloves. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances Synonyms : Octyltriethoxysilane Formula : C14H32O3Si Molecular weight : 276.49 g/mol CAS-No. : 2943-75-1 EC-No. : 220-941-2

SECTION 4. FIRST AID MEASURES

Description of first-aid measures General advice Show this material safety data sheet to the doctor in attendance. If inhaled After inhalation: fresh air. In case of skin contact In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. In case of eye contact After eye contact: rinse out with plenty of water. Remove contact lenses. If swallowed After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell. Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media Suitable extinguishing media Carbon dioxide (CO2) Dry powder Unsuitable extinguishing media Foam Water Special hazards arising from the substance or mixture Carbon oxides silicon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire. Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Further information Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire

extinguishing water from contaminating surface water or the ground water system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8. Environmental precautions Do not let product enter drains. Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area. Reference to other sections For disposal see section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling For precautions see section 2.2. Conditions for safe storage, including any incompatibilities Storage conditions Tightly closed. Moisture sensitive. Store under inert gas. Storage class Storage class Storage class (TRGS 510): 10: Combustible liquids Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Ingredients with workplace control parameters Contains no substances with occupational exposure limit values. Exposure controls Appropriate engineering controls Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses Skin protection This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use **Body Protection** protective clothing Respiratory protection

required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Control of environmental exposure Do not let product enter drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties a) Appearance Form: liquid Color: colorless b) Odor No data available c) Odor Threshold No data available d) pH No data available e) Melting point/freezing point Melting point/range: -75 °C (-103 °F) at 1,013 hPa - OECD Test Guideline 102 f) Initial boiling point and boiling range 84 - 85 °C 183 - 185 °F at 0.7 hPa - lit. g) Flash point 100 °C (212 °F) - closed cup h) Evaporation rate No data available i) Flammability (solid, gas) No data available i) Upper/lower flammability or explosive limits No data available k) Vapor pressure No data available I) Vapor density No data available m) Density 0.88 g/cm3 at 25 °C (77 °F) - lit. Relative density No data available n) Water solubility 0.13 g/l at 22.8 °C (73.0 °F) - OECD Test Guideline 105 slightly soluble o) Partition coefficient: n-octanol/water No data available p) Autoignition temperature 225 °C (437 °F) at 1,008.9 - 1,020.8 hPa q) Decomposition temperature No data available r) Viscosity 1.68 mm2/s at 20 °C (68 °F) - OECD Test Guideline 114 s) Explosive properties No data available t) Oxidizing properties No data available Other safety information No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. Chemical stability The product is chemically stable under standard ambient conditions (room temperature). Possibility of hazardous reactions Violent reactions possible with: Water Strong oxidizing agents Bases acids Conditions to avoid Strong heating. Incompatible materials No data available Hazardous decomposition products In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

nformation on toxicological effects Acute toxicity LD50 Oral - Rat - male and female - >= 5,110 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - male and female - 4 h - > 22 ppm (OECD Test Guideline 403) LD50 Dermal - Rabbit - male - 6,730 mg/kg (OECD Test Guideline 402) LD50 Dermal - Rabbit - female - > 8,000 mg/kg (OECD Test Guideline 402) No data available Skin corrosion/irritation Skin - Rabbit Result: Irritating to skin. (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405) Respiratory or skin sensitization Maximization Test - Guinea pig Result: Not a skin sensitizer. (OECD Test Guideline 406) Germ cell mutagenicity Test Type: reverse mutation assay Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) **Result:** negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Carcinogenicity No data available IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. Reproductive toxicity No data available **Developmental Toxicity- Rat- Oral** Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information Repeated dose toxicity - Rat - male and female - NOAEL (No observed adverse effect level) - 300 ma/ka RTECS: VV6695500 Contact with eyes can cause:, Redness, Blurred vision, Provokes tears., Prolonged or repeated contact with skin may cause:, defatting, Dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

SECTION 12. ECOLOGICAL INFORMATION

Toxicity Toxicity to fish flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - > 0.055 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates flow-through test EC50 - Daphnia magna (Water flea) - > 0.049 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata (green algae) - > 0.13 mg/l - 72 h (OECD Test Guideline 201) Toxicity to bacteria EC50 - activated sludge - > 1,000 mg/l - 3 h

(OECD Test Guideline 209) Persistence and degradability Biodegradability aerobic - Exposure time 28 d Result: 31.5 % - Not readily biodegradable. (OECD Test Guideline 301D) **Bioaccumulative potential** No data available Mobility in soil No data available Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted Endocrine disrupting properties No data available Other adverse effects No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods Product Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14. TRANSPORT INFORMATION

DOT (US) Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods Further information Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

SARA 302 Components This material does not contain any components with a section 302 EHS TPQ. SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

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.