Printing date 05/29/2024

Reviewed on 05/29/2024

1 Identification · Product identifier · Trade name: Selenium Dioxide, 99.9+% Powder · Article number: S0999 · CAS Number: 7446-08-4 · EC number: 231-194-7 · Index number: 034-002-00-8 • Details of the supplier of the safety data sheet · Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586 · Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org · Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666 2 Hazard(s) identification · Classification of the substance or mixture GHS06 Skull and crossbones Acute Toxicity - Oral 3 H301 Toxic if swallowed. Acute Toxicity - Inhalation 3 H331 Toxic if inhaled. GHS08 Health hazard Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure. · Label elements • GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS06 GHS08 · Signal word Danger · Hazard statements Toxic if swallowed or if inhaled. May cause damage to organs through prolonged or repeated exposure.

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Trade name: Selenium Dioxide, 99.9+% Powder

Precautionary statements Do not breath dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Rinse mouth. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor. Get medical advice/attention if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system: • NFPA ratings (scale 0 - 4) Health = 4 Fire = 0 Reactivity = 0 • HMIS-ratings (scale 0 - 4) Health = 3 Fire = 0 Reactivity = 0 • Other hazards Results of PBT and vPvB assessment • PBT: Not applicable. • PvB; Not applicable.	auc name. Scientum Dioxace, 77.717010#aci	
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FIRE FIRE Fire = 0 REACTIVITY Reactivity = 0 • Other hazards • Results of PBT and vPvB assessment • PBT: Not applicable. • vPvB: Not applicable. • vPvB: Not applicable. • Secomposition/information on ingredients	· HMIS-ratings (scale 0 - 4)	
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• PBT: Not applicable. • vPvB: Not applicable. B Composition/information on ingredients	• Other hazards	
• PBT: Not applicable. • vPvB: Not applicable. B Composition/information on ingredients	· Results of PBT and vPvB assessment	
• vPvB: Not applicable. B Composition/information on ingredients	• <i>PBT:</i> Not applicable.	
	· vPvB: Not applicable.	
	3 Composition/information on ingredients	
	CAS No. Description	

- CAS: 7446-08-4 selenium dioxide
- · Identification number(s)
- EC number: 231-194-7
- · Index number: 034-002-00-8

4 First-aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air or oxygen; call for doctor. In case of unconsciousness place patient stably in side position for transportation.

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- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- 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: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- · 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.
- · Protective Action Criteria for Chemicals
- · PAC-1: 0.84 mg/m³
- · PAC-2: 1.6 mg/m³
- · PAC-3: 9.5 mg/m³

7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Thorough dedusting.
- Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · 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: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

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•	Control	parameters
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	· Components with	limit values that	require monitoring	at the workplace:
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CAS: 7446-08-4 selenium dioxide

PEL Long-term value: 0.2 mg/m³ as Se

REL Long-term value: 0.2 mg/m³ as Se TLV Long-term value: 0.2 mg/m³

as Se

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
- Store protective clothing separately.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. • **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties • Information on basic physical and chemical properties • General Information • Appearance: Form: Crystalline Color: White

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		(Contd. of page 4)
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	315 °C (599 °F)	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Product is not flammable.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Not determined.	
Partition coefficient (n-octanol/wate	r): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Other information	No further relevant information available.	

10 Stability and reactivity

• *Reactivity* No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral LD50 100 mg/kg (ATE)

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Inhalative LC50/4h 0.5 mg/l (ATE)

- Primary irritant effect:
- on the skin: No irritant effect.
- \cdot on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- \cdot Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) 3
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

- Water hazard class 2 (Assessment by list): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

· UN-Number	
· DOT, IMDG, IATA	UN3283
· UN proper shipping name	
· DOT	Selenium compound, solid, n.o.s. (selenium dioxide)
· IMDG, IATA	SELENIUM COMPOUND, SOLID, N.O.S. (selenium dioxide)

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	(Contd. of pag
Transport hazard class(es)	
DOT	
TOXIC	
· Class · Label	6.1 Toxic substances 6.1
· IMDG	
· Class · Label	6.1 Toxic substances 6.1
·IATA	
1	
· Class · Label	6.1 Toxic substances 6.1
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	Environmentally hazardous substance, solid Symbol (fish and tree)
· Special precautions for user	Warning: Toxic substances
· Hazard identification number (Kemle	
· EMS Number: · Stowage Category	F-A,S-A B
• Transport in bulk according to Anne: MARPOL73/78 and the IBC Code	<i>x II of</i> Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 25 kg
Harman Langer La	On cargo aircraft only: 100 kg
· Hazardous substance:	10 lbs, 4.54 kg
	500
· Limited quantities (LQ)	500 g Coder F4
\cdot Excepted quantities (EQ)	Code: E4 Maximum net quantity per inner packaging: 1 a
	Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g
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· UN "Model Regulation":

UN 3283 SELENIUM COMPOUND, SOLID, N.O.S. (SELENIUM DIOXIDE), 6.1, II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

• Sara

- · Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is listed.
- TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.

· Carcinogenic categories

- · EPA (Environmental Protection Agency) D
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Danger · Hazard statements Toxic if swallowed or if inhaled. May cause damage to organs through prolonged or repeated exposure. · Precautionary statements Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Rinse mouth. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor. Get medical advice/attention if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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	n is based on our present knowledge. However, this shall not constitute a guarantee for a features and shall not establish a legally valid contractual relationship.
Department iss	ing SDS: Environment protection department.
Contact:	
Date of Prepare	ion / Last Revision:
	ion / last revision
	28/2024: Reviewed SDS for accuracy. MH/STN
	30-2024: Creation date for SDS. STN
05/29/2024	
Abbreviations a	a acronyms:
IMDG: Internation	Maritime Code for Dangerous Goods
DOT: US Departme	
	Air Transport Association
*	nventory of Existing Commercial Chemical Substances
	racts Service (division of the American Chemical Society)
	Protection Association (USA)
LC50: Lethal conce	aterials Identification System (USA)
LD50: Lethal dose,	
	accumulative and Toxic
	and very Bioaccumulative
	titute for Occupational Safety
OSHA: Occupation	Safety & Health
TLV: Threshold Lin	t Value
PEL: Permissible E	
REL: Recommende	
	3: Acute toxicity – Category 3
Specific Target Org	n Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2 I to the previous version altered.