

Safety Data Sheet acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

1 Identification

- **Product identifier**
- **Trade name:** SPEO-015-PEST, SQCO-015-PEST
- **Other means of identification**
- **Application of the substance / the mixture** For Laboratory Use Only
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
NSI Lab Solutions
7212 ACC Blvd.,
Raleigh, NC 27617
USA
- **Information department:** Product safety department
- **Emergency telephone number:** During normal opening times: +1 (919) 789-3000

* 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Germ cell mutagenicity 2

H341 Suspected of causing genetic defects.

Carcinogenicity 1A

H350 May cause cancer.

Specific target organ toxicity (single exposure) 1

H370 Causes damage to organs.

Specific target organ toxicity (repeated exposure) 1

H372 Causes damage to organs through prolonged or repeated exposure.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
Quartz (SiO₂)
- **Hazard statements**
Suspected of causing genetic defects.
May cause cancer.
Causes damage to organs.
Causes damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
Obtain special instructions before use.

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Do not handle until all safety precautions have been read and understood.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 Specific treatment (see on this label).
 IF exposed or concerned: Get medical advice/attention.
 Get medical advice/attention if you feel unwell.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Information pertaining to particular dangers for man and environment:**

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· **Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

* 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
14808-60-7	Quartz (SiO ₂)	80–100%
· Non-hazardous components		
67-64-1	acetone	≥0.5–≤1%
8001-35-2	Toxaphene	≥0–<0.1%
57-74-9	chlordan (ISO)	≥0–<0.1%
58-89-9	γ-HCH or γ-BHC	≥0–<0.1%
72-20-8	endrin (ISO)	≥0–≤0.1%
72-43-5	methoxychlor	≥0–<0.1%
76-44-8	heptachlor (ISO)	≥0–<0.1%
1024-57-3	heptachlor epoxide	≥0–<0.1%

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4 First-aid measures

- **Description of first aid measures**

- **General information:**

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

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Generally the product does not irritate the skin.

- **After eye contact:** Rinse opened eye for several minutes under running water.

- **After swallowing:** If symptoms persist consult 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** During heating or in case of fire poisonous gases are produced.

- **Advice for firefighters**

- **Protective equipment:** Mouth respiratory protective device.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.

- **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.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

14808-60-7	Quartz (SiO ₂)	0.075 mg/m ³
67-64-1	acetone	200 ppm
8001-35-2	Toxaphene	1.0 mg/m ³
57-74-9	chlordane (ISO)	1.5 mg/m ³
58-89-9	γ -HCH or γ -BHC	9.1 mg/m ³
72-20-8	endrin (ISO)	0.080 mg/m ³
72-43-5	methoxychlor	30 mg/m ³
76-44-8	heptachlor (ISO)	0.15 mg/m ³
1024-57-3	heptachlor epoxide	0.15 mg/m ³

- **PAC-2:**

14808-60-7	Quartz (SiO ₂)	8.3 mg/m ³
67-64-1	acetone	3200* ppm
8001-35-2	Toxaphene	20 mg/m ³
57-74-9	chlordane (ISO)	50 mg/m ³
58-89-9	γ -HCH or γ -BHC	100 mg/m ³
72-20-8	endrin (ISO)	20 mg/m ³
72-43-5	methoxychlor	150 mg/m ³

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76-44-8	heptachlor (ISO)	14 mg/m ³
1024-57-3	heptachlor epoxide	0.50 mg/m ³
· PAC-3:		
14808-60-7	Quartz (SiO ₂)	50 mg/m ³
67-64-1	acetone	5700* ppm
8001-35-2	Toxaphene	200 mg/m ³
57-74-9	chlordan (ISO)	500 mg/m ³
58-89-9	γ -HCH or γ -BHC	1,000 mg/m ³
72-20-8	endrin (ISO)	2,000 mg/m ³
72-43-5	methoxychlor	4,500 mg/m ³
76-44-8	heptachlor (ISO)	700 mg/m ³
1024-57-3	heptachlor epoxide	3 mg/m ³

· 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

· Precautions for safe handling

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

· Control parameters**· Components with limit values that require monitoring at the workplace:****14808-60-7 Quartz (SiO₂)**

PEL Long-term value: 0.05* mg/m³
 *resp. dust; 30mg/m³/%SiO₂+2

REL Long-term value: 0.05* mg/m³
 *respirable dust; See Pocket Guide App. A

TLV Long-term value: 0.025* mg/m³
 *respirable particulate matter, A2

· Additional information: The lists that were valid during the creation were used as basis.**· Exposure controls****· Appropriate engineering controls** No further data; see section 7.**· Personal protective equipment:****· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

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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

· **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **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**

· **Physical state**

Solid

· **Color:**

According to product specification

· **Odor:**

Characteristic

· **Odor threshold:**

Not determined.

· **Melting point/Melting range:**

1,713 °C (35.113 °F)

· **Boiling point/Boiling range:**

2,230 °C (3630 °F)

· **Flammability:**

Not determined.

· **Explosion limits:**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

Not applicable.

· **Decomposition temperature:**

Not determined.

· **pH-value:**

Not applicable.

· **Viscosity:**

· **Kinematic:**

Not applicable.

· **Dynamic:**

Not applicable.

· **Solubility in / Miscibility with**

· **Water:**

Soluble.

· **Partition coefficient (n-octanol/water):**

Not determined.

· **Vapor pressure at 1732 °C (3,149.6 °F):**

13.5 hPa (10.1 mm Hg)

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· Vapor pressure:	
· Density at 20 °C (68 °F):	2.2–2.6 g/cm ³ (18.359–21.697 lbs/gal)
· Relative density	Not determined.
· Bulk density:	1,400 kg/m ³
· Vapor density	Not applicable.
· Particle characteristics	Not determined.
· Other information	
· Appearance:	
· Form:	Solid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	0.8–1 %
· VOC content:	0–0.01 %
· Solids content:	99 %
· Change in condition	
· Evaporation rate	Not applicable.

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:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
- The product shows the following dangers according to internally approved calculation methods for preparations:
- **Interactive effects** No interactive effects between components are known.
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
14808-60-7	Quartz (SiO ₂)	1
8001-35-2	Toxaphene	2B
57-74-9	chlordan (ISO)	2B
58-89-9	γ -HCH or γ -BHC	1
72-20-8	endrin (ISO)	3

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72-43-5	methoxychlor	3
76-44-8	heptachlor (ISO)	2B
1024-57-3	heptachlor epoxide	2B

· NTP (National Toxicology Program)		
14808-60-7	Quartz (SiO ₂)	K
8001-35-2	Toxaphene	R
58-89-9	γ -HCH or γ -BHC	R

· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		
· Alternative sources for toxicological information No non-standard sources for toxicological information where used.		

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects**
- **Additional ecological information:**
- **General notes:**
- Water hazard class 1 (Self-assessment): slightly hazardous for water
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

14 Transport information

· UN-Number	
· DOT, IMDG, IATA	not regulated
· UN proper shipping name	
· DOT, IMDG, IATA	not regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA	
· Class	not regulated

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· Packing group	
· DOT, IMDG, IATA	not regulated
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
· Special precautions for user	Not applicable.
· UN "Model Regulation":	not regulated

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):	
8001-35-2	Toxaphene
57-74-9	chlordan (ISO)
58-89-9	γ -HCH or γ -BHC
72-20-8	endrin (ISO)

· Section 313 (Specific toxic chemical listings):	
8001-35-2	Toxaphene
57-74-9	chlordan (ISO)
58-89-9	γ -HCH or γ -BHC
72-43-5	methoxychlor
76-44-8	heptachlor (ISO)

· TSCA (Toxic Substances Control Act):		
14808-60-7	Quartz (SiO2)	ACTIVE
67-64-1	acetone	ACTIVE
58-89-9	γ -HCH or γ -BHC	ACTIVE

· Hazardous Air Pollutants	
8001-35-2	Toxaphene
57-74-9	chlordan (ISO)
58-89-9	γ -HCH or γ -BHC
72-43-5	methoxychlor
76-44-8	heptachlor (ISO)

· Proposition 65

· Chemicals known to cause cancer:	
14808-60-7	Quartz (SiO ₂)
8001-35-2	Toxaphene
57-74-9	chlordan (ISO)
58-89-9	γ -HCH or γ -BHC
76-44-8	heptachlor (ISO)
1024-57-3	heptachlor epoxide

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· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
· Chemicals known to cause developmental toxicity:		
72-20-8	endrin (ISO)	
76-44-8	heptachlor (ISO)	
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
67-64-1	acetone	I
8001-35-2	Toxaphene	B2
57-74-9	chlordan (ISO)	B2
72-20-8	endrin (ISO)	D
72-43-5	methoxychlor	D
76-44-8	heptachlor (ISO)	B2
1024-57-3	heptachlor epoxide	B2
· TLV (Threshold Limit Value)		
14808-60-7	Quartz (SiO ₂)	A2
67-64-1	acetone	A4
8001-35-2	Toxaphene	A3
57-74-9	chlordan (ISO)	A3
58-89-9	γ-HCH or γ-BHC	A3
72-20-8	endrin (ISO)	A4
72-43-5	methoxychlor	A4
76-44-8	heptachlor (ISO)	A3
1024-57-3	heptachlor epoxide	A3
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
14808-60-7	Quartz (SiO ₂)	
8001-35-2	Toxaphene	
57-74-9	chlordan (ISO)	
72-43-5	methoxychlor	
76-44-8	heptachlor (ISO)	

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).· **Hazard pictograms**

GHS08

· **Signal word** Danger· **Hazard-determining components of labeling:**Quartz (SiO₂)· **Hazard statements**

Suspected of causing genetic defects.

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*May cause cancer.**Causes damage to organs.**Causes damage to organs through prolonged or repeated exposure.***· Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Do not breathe dust/fume/gas/mist/vapors/spray.**Wash thoroughly after handling.**Do not eat, drink or smoke when using this product.**Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.**Specific treatment (see on this label).**IF exposed or concerned: Get medical advice/attention.**Get medical advice/attention if you feel unwell.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.***· National regulations:****· Information about limitation of use:***Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.***· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.***· Department issuing SDS: Environment protection department.****· Contact: - Department Technical Manager****· Date of previous version 05/01/2024****· Date of preparation 06/30/2026****· Abbreviations and acronyms:***ADR: Accord relatif au transport international 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 Transportation**IATA: International Air Transport Association**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**NFPA: National Fire Protection Association (USA)**HMIS: Hazardous Materials Identification System (USA)**VOC: Volatile Organic Compounds (USA, EU)**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**NIOSH: National Institute for Occupational Safety**OSHA: Occupational Safety & Health**TLV: Threshold Limit Value**PEL: Permissible Exposure Limit**REL: Recommended Exposure Limit**Germ cell mutagenicity 2: Germ cell mutagenicity – Category 2**Carcinogenicity 1A: Carcinogenicity – Category 1A**Specific target organ toxicity (single exposure) 1: Specific target organ toxicity (single exposure) – Category 1**Specific target organ toxicity (repeated exposure) 1: Specific target organ toxicity (repeated exposure) – Category 1***· * Data compared to the previous version altered.**