

Safety Data Sheet acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

1 Identification

- **Product identifier**
- **Trade name:** QCO-005-12, PEO-005-12
- **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**



GHS02 Flame

Flammable liquids 2

H225 Highly flammable liquid and vapor.



GHS07

Eye irritation 2A

H319 Causes serious eye irritation.

Specific target organ toxicity (single exposure) 3 H336 May cause drowsiness or dizziness.

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



GHS02



GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**
acetone
- **Hazard statements**
Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.

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Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Ground / bond container and receiving equipment.

Use explosion-proof [electrical/ventilating/lighting] equipment.

Use non-sparking tools.

Take action to prevent static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a poison center/doctor if you feel unwell.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use CO₂, powder or water spray to extinguish.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

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:

67-64-1	acetone	≥80–≤100%
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Non-hazardous components

1918-16-7	propachlor (ISO)	≥0–<0.1%
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1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	≥0–<0.1%
72-43-5	methoxychlor	≥0–<0.1%
118-74-1	hexachlorobenzene	≥0–<0.1%
77-47-4	hexachlorocyclopentadiene	≥0–≤0.1%
60-57-1	dieldrin (ISO)	≥0–<0.1%
72-20-8	endrin (ISO)	≥0–≤0.1%
76-44-8	heptachlor (ISO)	≥0–<0.1%
309-00-2	aldrin (ISO)	≥0–<0.1%
1024-57-3	heptachlor epoxide	≥0–<0.1%
58-89-9	γ-HCH or γ-BHC	≥0–<0.1%

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **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:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **Protective Action Criteria for Chemicals**

· PAC-1:		
67-64-1	acetone	200 ppm
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	1.2 mg/m ³
72-43-5	methoxychlor	30 mg/m ³

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118-74-1	hexachlorobenzene	0.006 mg/m ³
77-47-4	hexachlorocyclopentadiene	0.33 mg/m ³
60-57-1	dieldrin (ISO)	0.50 mg/m ³
72-20-8	endrin (ISO)	0.080 mg/m ³
76-44-8	heptachlor (ISO)	0.15 mg/m ³
309-00-2	aldrin (ISO)	0.91 mg/m ³
1024-57-3	heptachlor epoxide	0.15 mg/m ³
58-89-9	γ -HCH or γ -BHC	9.1 mg/m ³

· PAC-2:

67-64-1	acetone	3200* ppm
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	13 mg/m ³
72-43-5	methoxychlor	150 mg/m ³
118-74-1	hexachlorobenzene	120 mg/m ³
77-47-4	hexachlorocyclopentadiene	1.9 mg/m ³
60-57-1	dieldrin (ISO)	4.5 mg/m ³
72-20-8	endrin (ISO)	20 mg/m ³
76-44-8	heptachlor (ISO)	14 mg/m ³
309-00-2	aldrin (ISO)	10 mg/m ³
1024-57-3	heptachlor epoxide	0.50 mg/m ³
58-89-9	γ -HCH or γ -BHC	100 mg/m ³

· PAC-3:

67-64-1	acetone	5700* ppm
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	78 mg/m ³
72-43-5	methoxychlor	4,500 mg/m ³
118-74-1	hexachlorobenzene	690 mg/m ³
77-47-4	hexachlorocyclopentadiene	11 mg/m ³
60-57-1	dieldrin (ISO)	27 mg/m ³
72-20-8	endrin (ISO)	2,000 mg/m ³
76-44-8	heptachlor (ISO)	700 mg/m ³
309-00-2	aldrin (ISO)	100 mg/m ³
1024-57-3	heptachlor epoxide	3 mg/m ³
58-89-9	γ -HCH or γ -BHC	1,000 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.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.

- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **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:**

67-64-1 acetone

PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: 1187 mg/m ³ , 500 ppm
	Long-term value: 594 mg/m ³ , 250 ppm
	A4, BEI

- **Ingredients with biological limit values:**

67-64-1 acetone

BEI	25 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Acetone (nonspecific)

- **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.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **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

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· **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**

Liquid

· **Color:**

Colorless

· **Odor:**

Characteristic

· **Odor threshold:**

Not determined.

· **Melting point/Melting range:**

-94.7 °C (-138.5 °F)

· **Boiling point/Boiling range:**

55.8–56.6 °C (132.4–133.9 °F)

· **Flammability:**

Highly flammable.

· **Explosion limits:**

· **Lower:**

2.6 Vol %

· **Upper:**

13 Vol %

· **Flash point:**

-17 °C (1.4 °F)

· **Auto igniting:**

465 °C (869 °F)

· **Decomposition temperature:**

Not determined.

· **pH-value:**

Not determined.

· **Viscosity:**

· **Kinematic:**

Not determined.

· **Dynamic at 20 °C (68 °F):**

32 mPas

· **Solubility in / Miscibility with**

· **Water:**

Fully miscible.

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

Not determined.

· **Vapor pressure at 20 °C (68 °F):**

233 hPa (174.8 mm Hg)

· **Vapor pressure at 50 °C (122 °F):**

800 hPa (600 mm Hg)

· **Density at 20 °C (68 °F):**

0.79 g/cm³ (6.59255 lbs/gal)

· **Relative density**

Not determined.

· **Vapor density**

Not determined.

· **Particle characteristics**

Not applicable.

· **Other information**

· **Appearance:**

· **Form:**

Fluid

· **Important information on protection of health and environment, and on safety.**

· **Ignition temperature:**

Product is not selfigniting.

· **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

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· Solvent content:	
· Organic solvents:	99–100 %
· VOC content:	0 %
	0–10 g/l / 0–0.08 lb/gal
· Solids content:	0 %
· Change in condition	
· Evaporation rate	Not determined.

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:		
67-64-1 acetone		
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)

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

· IARC (International Agency for Research on Cancer)		
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	3
72-43-5	methoxychlor	3
118-74-1	hexachlorobenzene	2B
60-57-1	dieldrin (ISO)	2A
72-20-8	endrin (ISO)	3
76-44-8	heptachlor (ISO)	2B
309-00-2	aldrin (ISO)	2A
1024-57-3	heptachlor epoxide	2B
58-89-9	γ-HCH or γ-BHC	1

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· NTP (National Toxicology Program)		
118-74-1	hexachlorobenzene	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	UN1993
· UN proper shipping name	
· DOT	Flammable liquids, n.o.s. (Acetone)
· IMDG	FLAMMABLE LIQUID, N.O.S. (ACETONE)
· IATA	Flammable liquid, n.o.s. (ACETONE)

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· Transport hazard class(es) · DOT	
	
· Class · Label	3 Flammable liquids 3
· IMDG, IATA	
	
· Class · Label	3 Flammable liquids 3
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
· Transport/Additional information: · DOT · Quantity limitations	
On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L	
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	
IL Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	
· Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Flammable liquids 33 F-E, S-E B
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE), 3, 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):	
77-47-4	hexachlorocyclopentadiene
72-20-8	endrin (ISO)
309-00-2	aldrin (ISO)

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58-89-9	γ -HCH or γ -BHC	
· Section 313 (Specific toxic chemical listings):		
1918-16-7	propachlor (ISO)	
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	
72-43-5	methoxychlor	
118-74-1	hexachlorobenzene	
77-47-4	hexachlorocyclopentadiene	
76-44-8	heptachlor (ISO)	
309-00-2	aldrin (ISO)	
58-89-9	γ -HCH or γ -BHC	
· TSCA (Toxic Substances Control Act):		
67-64-1	acetone	ACTIVE
118-74-1	hexachlorobenzene	ACTIVE
77-47-4	hexachlorocyclopentadiene	ACTIVE
58-89-9	γ -HCH or γ -BHC	ACTIVE
· Hazardous Air Pollutants		
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	
72-43-5	methoxychlor	
118-74-1	hexachlorobenzene	
77-47-4	hexachlorocyclopentadiene	
76-44-8	heptachlor (ISO)	
58-89-9	γ -HCH or γ -BHC	
· Proposition 65		
· Chemicals known to cause cancer:		
1918-16-7	propachlor (ISO)	
118-74-1	hexachlorobenzene	
60-57-1	dieldrin (ISO)	
76-44-8	heptachlor (ISO)	
309-00-2	aldrin (ISO)	
1024-57-3	heptachlor epoxide	
58-89-9	γ -HCH or γ -BHC	
· 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:		
118-74-1	hexachlorobenzene	
72-20-8	endrin (ISO)	
76-44-8	heptachlor (ISO)	
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
67-64-1	acetone	I

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1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	C
72-43-5	methoxychlor	D
118-74-1	hexachlorobenzene	B2
77-47-4	hexachlorocyclopentadiene	E, NL
60-57-1	dieldrin (ISO)	B2
72-20-8	endrin (ISO)	D
76-44-8	heptachlor (ISO)	B2
309-00-2	aldrin (ISO)	B2
1024-57-3	heptachlor epoxide	B2

· **TLV (Threshold Limit Value)**

67-64-1	acetone	A4
72-43-5	methoxychlor	A4
118-74-1	hexachlorobenzene	A3
77-47-4	hexachlorocyclopentadiene	A4
60-57-1	dieldrin (ISO)	(A4)
72-20-8	endrin (ISO)	A4
76-44-8	heptachlor (ISO)	A3
309-00-2	aldrin (ISO)	A3
1024-57-3	heptachlor epoxide	A3
58-89-9	γ-HCH or γ-BHC	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

72-43-5	methoxychlor
60-57-1	dieldrin (ISO)
76-44-8	heptachlor (ISO)
309-00-2	aldrin (ISO)

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

GHS02 GHS07

· **Signal word** Danger· **Hazard-determining components of labeling:**

acetone

· **Hazard statements**

Highly flammable liquid and vapor.

Causes serious eye irritation.

May cause drowsiness or dizziness.

· **Precautionary statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Ground / bond container and receiving equipment.

Use explosion-proof [electrical/ventilating/lighting] equipment.

Use non-sparking tools.

Take action to prevent static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray

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*Wash thoroughly after handling.**Use only outdoors or in a well-ventilated area.**Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.**If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**If inhaled: Remove person to fresh air and keep comfortable for breathing.**If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**Call a poison center/doctor if you feel unwell.**If eye irritation persists: Get medical advice/attention.**In case of fire: Use CO₂, powder or water spray to extinguish.**Store in a well-ventilated place. Keep container tightly closed.**Store in a well-ventilated place. Keep cool.**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.*

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** 04/02/2024**• **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)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**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**BEI: Biological Exposure Limit**Flammable liquids 2: Flammable liquids – Category 2**Eye irritation 2A: Serious eye damage/eye irritation – Category 2A**Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3**• *** Data compared to the previous version altered.***