

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-022, PEO-022
- **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

4097-36-3	dinosam	≥0–≤0.1%
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51-28-5	2,4-dinitrophenol	$\geq 0 - \leq 0.1\%$
100-02-7	4-nitrophenol	$\geq 0 - \leq 0.1\%$
108-95-2	phenol	$\geq 0 - \leq 0.1\%$
88-75-5	2-nitrophenol	$\geq 0 - \leq 0.1\%$
106-44-5	p-cresol	$\geq 0 - \leq 0.1\%$
87-86-5	pentachlorophenol	$\geq 0 - < 0.1\%$
95-48-7	o-cresol	$\geq 0 - \leq 0.1\%$
95-95-4	2,4,5-trichlorophenol	$\geq 0 - < 0.1\%$
105-67-9	2,4-xylenol	$\geq 0 - \leq 0.1\%$
59-50-7	chlorocresol	$\geq 0 - < 0.1\%$
87-65-0	2,6-dichlorophenol	$\geq 0 - < 0.1\%$
88-06-2	2,4,6-trichlorophenol	$\geq 0 - < 0.1\%$
95-57-8	2-chlorophenol	$\geq 0 - < 0.1\%$
120-83-2	2,4-dichlorophenol	$\geq 0 - < 0.1\%$
58-90-2	2,3,4,6-tetrachlorophenol	$\geq 0 - < 0.1\%$
65-85-0	Benzoic acid	$\geq 0 - \leq 0.1\%$
131-89-5	dinex	$\geq 0 - \leq 0.1\%$
4901-51-3	2,3,4,5-Tetrachlorophenol	$\geq 0 - \leq 0.1\%$

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.

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· **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
51-28-5	2,4-dinitrophenol	0.61 mg/m ³
100-02-7	4-nitrophenol	0.51 mg/m ³
108-95-2	phenol	15 ppm
88-75-5	2-nitrophenol	2.1 mg/m ³
87-86-5	pentachlorophenol	1 mg/m ³
95-95-4	2,4,5-trichlorophenol	2.5 mg/m ³
105-67-9	2,4-xylenol	6.9 mg/m ³
59-50-7	chlorocresol	5.5 mg/m ³
87-65-0	2,6-dichlorophenol	8.8 mg/m ³
88-06-2	2,4,6-trichlorophenol	2.5 mg/m ³
95-57-8	2-chlorophenol	2.3 mg/m ³
120-83-2	2,4-dichlorophenol	0.20 ppm
65-85-0	Benzoic acid	13 mg/m ³
· PAC-2:		
67-64-1	acetone	3200* ppm
51-28-5	2,4-dinitrophenol	1.4 mg/m ³
100-02-7	4-nitrophenol	5.6 mg/m ³
108-95-2	phenol	23 ppm
88-75-5	2-nitrophenol	11 mg/m ³
87-86-5	pentachlorophenol	15 mg/m ³
95-95-4	2,4,5-trichlorophenol	27 mg/m ³
105-67-9	2,4-xylenol	76 mg/m ³
59-50-7	chlorocresol	60 mg/m ³
87-65-0	2,6-dichlorophenol	38 mg/m ³
88-06-2	2,4,6-trichlorophenol	27 mg/m ³
95-57-8	2-chlorophenol	25 mg/m ³
120-83-2	2,4-dichlorophenol	2.0 ppm
65-85-0	Benzoic acid	140 mg/m ³
· PAC-3:		
67-64-1	acetone	5700* ppm
51-28-5	2,4-dinitrophenol	8.3 mg/m ³
100-02-7	4-nitrophenol	34 mg/m ³
108-95-2	phenol	200 ppm
88-75-5	2-nitrophenol	66 mg/m ³
87-86-5	pentachlorophenol	150 mg/m ³
95-95-4	2,4,5-trichlorophenol	160 mg/m ³
105-67-9	2,4-xylenol	460 mg/m ³

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59-50-7	chlorocresol	360 mg/m ³
87-65-0	2,6-dichlorophenol	230 mg/m ³
88-06-2	2,4,6-trichlorophenol	160 mg/m ³
95-57-8	2-chlorophenol	150 mg/m ³
120-83-2	2,4-dichlorophenol	20 ppm
65-85-0	Benzoic acid	830 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.

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/m³, 1000 ppm

REL Long-term value: 590 mg/m³, 250 ppm

TLV Short-term value: 1187 mg/m³, 500 ppm

Long-term value: 594 mg/m³, 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.

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- **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

- **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.

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· 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/cm ³ (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.
· Solvent content:	
· Organic solvents:	99–99.7 %
· VOC content:	0.01–0.04 %
	0.4–7.4 g/l / 0–0.06 lb/gal
· Solids content:	0.1–0.3 %
· 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.

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· **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)		
108-95-2	phenol	3
87-86-5	pentachlorophenol	1
95-95-4	2,4,5-trichlorophenol	2B
87-65-0	2,6-dichlorophenol	2B
88-06-2	2,4,6-trichlorophenol	2B
95-57-8	2-chlorophenol	2B
120-83-2	2,4-dichlorophenol	2B
58-90-2	2,3,4,6-tetrachlorophenol	2B

· **NTP (National Toxicology Program)**

87-86-5	pentachlorophenol	R
88-06-2	2,4,6-trichlorophenol	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.

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

14 Transport information

· UN-Number	UN1993
· DOT, IMDG, IATA	
· UN proper shipping name	Flammable liquids, n.o.s. (Acetone)
· DOT	FLAMMABLE LIQUID, N.O.S. (ACETONE)
· IMDG	Flammable liquid, n.o.s. (ACETONE)
· IATA	
· Transport hazard class(es)	
· DOT	
	
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	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)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E, S-E
· Stowage Category	B

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· **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):**

108-95-2 phenol

95-48-7 o-cresol

· **Section 313 (Specific toxic chemical listings):**

51-28-5 2,4-dinitrophenol

100-02-7 4-nitrophenol

108-95-2 phenol

88-75-5 2-nitrophenol

106-44-5 p-cresol

87-86-5 pentachlorophenol

95-48-7 o-cresol

95-95-4 2,4,5-trichlorophenol

105-67-9 2,4-xilenol

87-65-0 2,6-dichlorophenol

88-06-2 2,4,6-trichlorophenol

95-57-8 2-chlorophenol

120-83-2 2,4-dichlorophenol

58-90-2 2,3,4,6-tetrachlorophenol

· **TSCA (Toxic Substances Control Act):**

67-64-1 acetone

ACTIVE

51-28-5 2,4-dinitrophenol

ACTIVE

100-02-7 4-nitrophenol

ACTIVE

108-95-2 phenol

ACTIVE

88-75-5 2-nitrophenol

ACTIVE

106-44-5 p-cresol

ACTIVE

87-86-5 pentachlorophenol

ACTIVE

95-48-7 o-cresol

ACTIVE

95-95-4 2,4,5-trichlorophenol

ACTIVE

105-67-9 2,4-xilenol

ACTIVE

59-50-7 chlorocresol

ACTIVE

87-65-0 2,6-dichlorophenol

ACTIVE

88-06-2 2,4,6-trichlorophenol

ACTIVE

95-57-8 2-chlorophenol

ACTIVE

120-83-2 2,4-dichlorophenol

ACTIVE

58-90-2 2,3,4,6-tetrachlorophenol

ACTIVE

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65-85-0	Benzoic acid	ACTIVE
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· **Hazardous Air Pollutants**

51-28-5	2,4-dinitrophenol
100-02-7	4-nitrophenol
108-95-2	phenol
106-44-5	p-cresol
87-86-5	pentachlorophenol
95-48-7	o-cresol
95-95-4	2,4,5-trichlorophenol
88-06-2	2,4,6-trichlorophenol

· **Proposition 65**· **Chemicals known to cause cancer:**

87-86-5	pentachlorophenol
88-06-2	2,4,6-trichlorophenol

· **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:**

None of the ingredients is listed.

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

67-64-1	acetone	I
108-95-2	phenol	D, I
106-44-5	p-cresol	C
87-86-5	pentachlorophenol	L
95-48-7	o-cresol	C
88-06-2	2,4,6-trichlorophenol	B2
65-85-0	Benzoic acid	D

· **TLV (Threshold Limit Value)**

67-64-1	acetone	A4
108-95-2	phenol	A4
87-86-5	pentachlorophenol	A3

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

None of the ingredients is listed.

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

GHS02 GHS07

· **Signal word** Danger

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· **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

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** 04/10/2024

· **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

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*REL: Recommended Exposure Limit**BEL: 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.***

— US —