Safety Data Sheet
acc. to OSHA HCS

Printing date 04/15/2024 Reviewed on 04/15/2024

1 Identification

· **Product identifier**

· **Trade name: QCO-121**
· **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.


GHS06 Skull and crossbones

Acute Toxicity - Inhalation 3	H331 Toxic if inhaled.


GHS08 Health hazard

Carcinogenicity 1A	H350 May cause cancer.
Specific Target Organ Toxicity - Single Exposure 1	H370 Causes damage to the central nervous system and the visual organs.


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 GHS06 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
methanol
acetone

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dimethylnitrosoamine
nitrosodipropylamine

· **Hazard statements**
Highly flammable liquid and vapor.
Toxic if inhaled.
Causes serious eye irritation.
May cause cancer.
Causes damage to the central nervous system and the visual organs.
May cause drowsiness or dizziness.

· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
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.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
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.

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 2
Fire = 3
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = *2
Fire = 3
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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3 Composition/information on ingredients

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

· **Dangerous components:**		
67-56-1	methanol	47.5–48.8%
67-64-1	acetone	47.5–48.8%
62-75-9	dimethylnitrosoamine	0.0075–0.02%
621-64-7	nitrosodipropylamine	0.003–0.02%
53-70-3	dibenz[a,h]anthracene	≥0.01–≤0.02%
50-32-8	benzo[a]pyrene	≥0.01–<0.02%
91-59-8	2-naphthylamine	≥0.01–≤0.02%
92-87-5	benzidine	≥0.01–≤0.02%

· **Non-hazardous components**		
67-72-1	hexachloroethane	0.005–0.02%
77-47-4	hexachlorocyclopentadiene	0.005–0.02%
84-66-2	diethyl phthalate	0.005–0.02%
85-68-7	BBP	0.005–0.02%
87-68-3	hexachlorobuta-1,3-diene	0.005–0.02%
131-11-3	dimethyl phthalate	0.005–0.02%
84-74-2	dibutyl phthalate	0.004–0.02%
86-30-6	nitrosodiphenylamine	0.003–0.02%
117-84-0	dioctyl phthalate	0.003–0.02%
132-64-9	dibenzofuran	0.003–0.02%
193-39-5	indeno[1,2,3-cd]pyrene	0.003–0.02%
206-44-0	fluoranthene	0.003–0.02%
78-59-1	3,5,5-trimethylcyclohex-2-enone	0.002–0.02%
91-20-3	naphthalene	0.002–0.02%
91-57-6	2-methylnaphthalene	0.002–0.02%
91-58-7	2-chloronaphthalene	0.002–0.02%
95-50-1	1,2-dichlorobenzene	0.002–0.02%
98-95-3	nitrobenzene	0.002–0.02%
101-55-3	4-Bromophenyl phenyl ether	0.002–0.02%
106-46-7	1,4-dichlorobenzene	0.002–0.02%
111-44-4	bis(2-chloroethyl) ether	0.002–0.02%
111-91-1	bis(2-chloroethoxy)methane	0.002–0.02%
117-81-7	bis(2-ethylhexyl) phthalate	0.002–0.02%
118-74-1	hexachlorobenzene	0.002–0.02%
120-82-1	1,2,4-trichlorobenzene	0.002–0.02%
205-99-2	benz[e]acephenanthrylene	0.002–0.02%
207-08-9	benzo[k]fluoranthene	0.002–0.02%
541-73-1	1,3-dichlorobenzene	0.002–0.02%
606-20-2	2,6-dinitrotoluene	0.002–0.02%

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7005-72-3	4-Chlorophenyl phenyl ether	0.002–0.02%
56-55-3	benz[a]anthracene	0.001–0.02%
83-32-9	acenaphthene	0.001–0.02%
85-01-8	phenanthrene, pure	0.001–0.02%
86-73-7	fluorene	0.001–0.02%
86-74-8	carbazole	0.001–0.02%
120-12-7	anthracene	0.001–0.02%
129-00-0	pyrene	0.001–0.02%
191-24-2	benzo[ghi]perylene	0.001–0.02%
208-96-8	acenaphthylene	0.001–0.02%
218-01-9	chrysene	0.001–0.02%
528-29-0	1,2-dinitrobenzene	0.001–0.02%
52-85-7	famphur	0–0.02%
53-96-3	N-fluoren-2-ylacetamide	0–0.02%
55-18-5	diethylnitrosoamine	0–0.02%
56-38-2	parathion (ISO)	0–0.02%
56-49-5	3-methylcholanthrene	0–0.02%
56-57-5	4-Nitroquinoline-1-oxide	0–0.02%
57-97-6	7,12-dimethylbenz[a]anthracene	0–0.02%
59-89-2	N-nitrosomorpholine	0–0.02%
60-11-7	4-dimethylaminoazobenzene	0–0.02%
60-51-5	dimethoate (ISO)	0–0.02%
62-44-2	phenacetin	0–0.02%
62-50-0	ethyl methanesulphonate	0–0.02%
62-53-3	aniline	0–0.02%
66-27-3	methyl methanesulphonate	0–0.02%
70-30-4	2,2'-methylenebis-(3,4,6-tri-chlorophenol)	0–0.02%
82-68-8	quintozene (ISO)	0–0.02%
88-74-4	o-nitroaniline	0–0.02%
88-85-7	dinoseb	0–0.02%
90-12-0	1-methylnaphthalene	0–0.02%
90-13-1	1-chloronaphthalene	0–0.02%
91-94-1	3,3'-dichlorobenzidine	0–0.02%
92-52-4	biphenyl	0–0.02%
92-67-1	biphenyl-4-ylamine	0–0.02%
94-59-7	safrole	0–0.02%
95-53-4	o-toluidine	0–0.02%
95-94-3	1,2,4,5-tetrachlorobenzene	0–0.02%
98-86-2	acetophenone	0–0.02%
99-02-9	m-Dinitrobenzene	0–0.02%
99-09-2	m-nitroaniline	0–0.02%
99-35-4	1,3,5-trinitrobenzene	0–0.02%
99-55-8	5-nitro-o-toluidine	0–0.02%

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99-65-0	1,3-dinitrobenzene	0–0.02%
100-01-6	p-nitroaniline	0–0.02%
100-25-4	1,4-dinitrobenzene	0–0.02%
100-51-6	Benzyl alcohol	0–0.02%
100-52-7	benzaldehyde	0–0.02%
100-75-4	1-nitrosopiperidine	0–0.02%
101-84-8	diphenyl ether	0–0.02%
105-60-2	1,6-hexanolactam	0–0.02%
106-47-8	4-chloroaniline	0–0.02%
106-50-3	p-phenylenediamine	0–0.02%
108-20-3	diisopropyl ether	0–0.02%
109-06-8	2-methylpyridine	0–0.02%
110-86-1	pyridine	0–0.02%
119-93-7	4,4'-bi-o-toluidine	0–0.02%
120-58-1	5-prop-1-enyl-1,3-benzodioxole	0–0.02%
121-14-2	2,4-dinitrotoluene	0–0.02%
122-09-8	α,α-Dimethylphenethylamine	0–0.02%
122-66-7	hydrazobenzene	0–0.02%

4 First-aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
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.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **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.
· **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:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **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.

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6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
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 item 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:**		
67-56-1	methanol	530 ppm
67-64-1	acetone	200 ppm
62-75-9	dimethylnitrosoamine	0.082 mg/m³
67-72-1	hexachloroethane	3 ppm
77-47-4	hexachlorocyclopentadiene	0.03 ppm
84-66-2	diethyl phthalate	15 mg/m³
85-68-7	BBP	15 mg/m³
87-68-3	hexachlorobuta-1,3-diene	1 ppm
131-11-3	dimethyl phthalate	15 mg/m³
84-74-2	dibutyl phthalate	15 mg/m³
86-30-6	nitrosodiphenylamine	5.5 mg/m³
117-84-0	dioctyl phthalate	41 mg/m³
132-64-9	dibenzofuran	30 mg/m³
193-39-5	indeno[1,2,3-cd]pyrene	1.2 mg/m³
206-44-0	fluoranthene	8.2 mg/m³
621-64-7	nitrosodipropylamine	5.6 mg/m³
53-70-3	dibenz[a,h]anthracene	0.093 mg/m³
78-59-1	3,5,5-trimethylcyclohex-2-enone	12 ppm
91-20-3	naphthalene	15 ppm
91-57-6	2-methylnaphthalene	9 mg/m³
91-58-7	2-chloronaphthalene	6.2 mg/m³
95-50-1	1,2-dichlorobenzene	50 ppm
98-95-3	nitrobenzene	3 ppm
101-55-3	4-Bromophenyl phenyl ether	0.33 mg/m³
106-46-7	1,4-dichlorobenzene	30 ppm
111-44-4	bis(2-chloroethyl) ether	10 ppm
111-91-1	bis(2-chloroethoxy)methane	0.04 ppm
117-81-7	bis(2-ethylhexyl) phthalate	10 mg/m³

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118-74-1	hexachlorobenzene	0.006 mg/m³
120-82-1	1,2,4-trichlorobenzene	0.45 ppm

· **PAC-2:**

67-56-1	methanol	2,100 ppm
67-64-1	acetone	3200* ppm
62-75-9	dimethylnitrosoamine	0.9 mg/m³
67-72-1	hexachloroethane	36 ppm
77-47-4	hexachlorocyclopentadiene	0.55 ppm
84-66-2	diethyl phthalate	300 mg/m³
85-68-7	BBP	77 mg/m³
87-68-3	hexachlorobuta-1,3-diene	3 ppm
131-11-3	dimethyl phthalate	1,600 mg/m³
84-74-2	dibutyl phthalate	1,600 mg/m³
86-30-6	nitrosodiphenylamine	60 mg/m³
117-84-0	dioctyl phthalate	450 mg/m³
132-64-9	dibenzofuran	330 mg/m³
193-39-5	indeno[1,2,3-cd]pyrene	13 mg/m³
206-44-0	fluoranthene	90 mg/m³
621-64-7	nitrosodipropylamine	62 mg/m³
53-70-3	dibenz[a,h]anthracene	1 mg/m³
78-59-1	3,5,5-trimethylcyclohex-2-enone	33 ppm
91-20-3	naphthalene	83 ppm
91-57-6	2-methylnaphthalene	54 mg/m³
91-58-7	2-chloronaphthalene	69 mg/m³
95-50-1	1,2-dichlorobenzene	170 ppm
98-95-3	nitrobenzene	20 ppm
101-55-3	4-Bromophenyl phenyl ether	3.6 mg/m³
106-46-7	1,4-dichlorobenzene	170 ppm
111-44-4	bis(2-chloroethyl) ether	25 ppm
111-91-1	bis(2-chloroethoxy)methane	0.44 ppm
117-81-7	bis(2-ethylhexyl) phthalate	1,000 mg/m³
118-74-1	hexachlorobenzene	14 mg/m³
120-82-1	1,2,4-trichlorobenzene	5 ppm

· **PAC-3:**

67-56-1	methanol	7200* ppm
67-64-1	acetone	5700* ppm
62-75-9	dimethylnitrosoamine	10 mg/m³
67-72-1	hexachloroethane	300 ppm
77-47-4	hexachlorocyclopentadiene	1 ppm
84-66-2	diethyl phthalate	1,800 mg/m³
85-68-7	BBP	460 mg/m³
87-68-3	hexachlorobuta-1,3-diene	10 ppm
131-11-3	dimethyl phthalate	9300* mg/m³

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84-74-2	dibutyl phthalate	9300* mg/m³
86-30-6	nitrosodiphenylamine	360 mg/m³
117-84-0	dioctyl phthalate	11000* mg/m³
132-64-9	dibenzofuran	2,000 mg/m³
193-39-5	indeno[1,2,3-cd]pyrene	79 mg/m³
206-44-0	fluoranthene	400 mg/m³
621-64-7	nitrosodipropylamine	95 mg/m³
53-70-3	dibenz[a,h]anthracene	2.9 mg/m³
78-59-1	3,5,5-trimethylcyclohex-2-enone	200 ppm
91-20-3	naphthalene	500 ppm
91-57-6	2-methylnaphthalene	320 mg/m³
91-58-7	2-chloronaphthalene	410 mg/m³
95-50-1	1,2-dichlorobenzene	1,000 ppm
98-95-3	nitrobenzene	200 ppm
101-55-3	4-Bromophenyl phenyl ether	21 mg/m³
106-46-7	1,4-dichlorobenzene	1,000 ppm
111-44-4	bis(2-chloroethyl) ether	250 ppm
111-91-1	bis(2-chloroethoxy)methane	2.7 ppm
117-81-7	bis(2-ethylhexyl) phthalate	6,100 mg/m³
118-74-1	hexachlorobenzene	91 mg/m³
120-82-1	1,2,4-trichlorobenzene	20 ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

· **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

· **Additional information about design of technical systems:** No further data; see item 7.

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· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

67-56-1 methanol	
PEL	Long-term value: 260 mg/m³, 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
TLV	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI

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: 500 ppm Long-term value: 250 ppm A4, BEI

62-75-9 dimethylnitrosoamine	
PEL	see 29 CFR 1910.1003
REL	See Pocket Guide App. A
TLV	Skin; L, A3

50-32-8 benzo[a]pyrene	
PEL	Long-term value: 0.2 mg/m³ see Coal tar pitch volatiles
REL	Long-term value: 0.1 mg/m³ Coal tar pitch volatile; Pocket Guide Apps. A+C
TLV	L; BEIp, A2

91-59-8 2-naphthylamine	
PEL	see 29 CFR 1910.1003
REL	See Pocket Guide App. A
TLV	L, A1

92-87-5 benzidine	
PEL	see 29 CFR 1910.1003
REL	See Pocket Guide Apps. A and C
TLV	Skin; L, A1

· **Ingredients with biological limit values:**	
67-56-1 methanol	
BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

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67-64-1 acetone	
BEI	25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
50-32-8 benzo[a]pyrene	
BEI	- Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)

· **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.
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

9 Physical and chemical properties

· **Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**
Form: Fluid

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Color:	According to product specification
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	55.8–56.6 °C (132.4–133.9 °F)
· **Flash point:**	-17 °C (1.4 °F)
· **Flammability (solid, gaseous):**	Highly flammable.
· **Ignition temperature:**	455 °C (851 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· **Explosion limits:**	
Lower:	2.6 Vol %
Upper:	44 Vol %
· **Vapor pressure at 20 °C (68 °F):**	233 hPa (174.8 mm Hg)
· **Density:**	Not determined.
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Organic solvents:	95–97.9 %
VOC content:	47.51–49.08 % 490.8–503.8 g/l / 4.1–4.2 lb/gal
Solids content:	0–1.3 %
· **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.

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· **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:**		
ATE (Acute Toxicity Estimate)		
Inhalative	LC50/4 h	6.15–6.32 mg/l

67-56-1 methanol		
Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)
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:
Toxic
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
62-75-9	dimethylnitrosoamine	2A
67-72-1	hexachloroethane	2B
85-68-7	BBP	3
87-68-3	hexachlorobuta-1,3-diene	3
86-30-6	nitrosodiphenylamine	3
193-39-5	indeno[1,2,3-cd]pyrene	2B
206-44-0	fluoranthene	3
621-64-7	nitrosodipropylamine	2B
53-70-3	dibenz[a,h]anthracene	2A
78-59-1	3,5,5-trimethylcyclohex-2-enone	2B
91-20-3	naphthalene	2B
95-50-1	1,2-dichlorobenzene	3
98-95-3	nitrobenzene	2B
106-46-7	1,4-dichlorobenzene	2B
111-44-4	bis(2-chloroethyl) ether	3
117-81-7	bis(2-ethylhexyl) phthalate	2B
118-74-1	hexachlorobenzene	2B
205-99-2	benz[e]acephenanthrylene	2B
207-08-9	benzo[k]fluoranthene	2B

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541-73-1	1,3-dichlorobenzene	3
606-20-2	2,6-dinitrotoluene	2B
50-32-8	benzo[a]pyrene	1
56-55-3	benz[a]anthracene	2B
83-32-9	acenaphthene	3
85-01-8	phenanthrene, pure	3
86-73-7	fluorene	3
86-74-8	carbazole	2B
120-12-7	anthracene	3
129-00-0	pyrene	3
191-24-2	benzo[ghi]perylene	3

· **NTP (National Toxicology Program)**

62-75-9	dimethylnitrosoamine	R
67-72-1	hexachloroethane	R
193-39-5	indeno[1,2,3-cd]pyrene	R
206-44-0	fluoranthene	R
621-64-7	nitrosodipropylamine	R
53-70-3	dibenz[a,h]anthracene	R
91-20-3	naphthalene	R
98-95-3	nitrobenzene	R
106-46-7	1,4-dichlorobenzene	R
117-81-7	bis(2-ethylhexyl) phthalate	R
118-74-1	hexachlorobenzene	R
205-99-2	benz[e]acephenanthrylene	R
207-08-9	benzo[k]fluoranthene	R
50-32-8	benzo[a]pyrene	R
56-55-3	benz[a]anthracene	R
85-01-8	phenanthrene, pure	R
86-73-7	fluorene	R
120-12-7	anthracene	R
129-00-0	pyrene	R
218-01-9	chrysene	R
53-96-3	N-fluoren-2-ylacetamide	R
55-18-5	diethylnitrosoamine	R
57-97-6	7,12-dimethylbenz[a]anthracene	R
59-89-2	N-nitrosomorpholine	R
60-11-7	4-dimethylaminoazobenzene	R
62-44-2	phenacetin	R
62-50-0	ethyl methanesulphonate	R
66-27-3	methyl methanesulphonate	R
91-59-8	2-naphthylamine	K
91-94-1	3,3'-dichlorobenzidine	R

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· **OSHA-Ca (Occupational Safety & Health Administration)**	
62-75-9	dimethylnitrosoamine
53-96-3	N-fluoren-2-ylacetamide
60-11-7	4-dimethylaminoazobenzene
91-59-8	2-naphthylamine
91-94-1	3,3'-dichlorobenzidine
92-67-1	biphenyl-4-ylamine
92-87-5	benzidine
134-32-7	1-naphthylamine

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 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely 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.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, IMDG, IATA**	UN3021
· **UN proper shipping name**	
· **DOT**	Pesticides, liquid, flammable, toxic (Acetone, Methanol)
· **IMDG**	PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S. (ACETONE, METHANOL), MARINE POLLUTANT
· **IATA**	Pesticide, liquid, flammable, toxic, n.o.s. (ACETONE, METHANOL)

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· **Transport hazard class(es)**

· **DOT**

· **Class**	3 Flammable liquids
· **Label**	3, 6.1

· **IMDG**

· **Class**	3 Flammable liquids
· **Label**	3/6.1

· **IATA**

· **Class**	3 Flammable liquids
· **Label**	3 (6.1)
· **Packing group**	
· **DOT, IMDG, IATA**	II
· **Environmental hazards:**	Product contains environmentally hazardous substances: dibenz[a,h] anthracene
· **Marine pollutant:**	Symbol (fish and tree)
· **Special precautions for user**	Warning: Flammable liquids
· **Hazard identification number (Kemler code):**	336
· **EMS Number:**	F-E,S-D
· **Stowage Category**	B
· **Stowage Code**	SW2 Clear of living quarters.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 1 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

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· **UN "Model Regulation":**	UN 3021 PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S. (ACETONE, METHANOL), 3 (6.1), II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

· **Section 355 (extremely hazardous substances):**	
62-75-9	dimethylnitrosoamine
77-47-4	hexachlorocyclopentadiene
98-95-3	nitrobenzene
111-44-4	bis(2-chloroethyl) ether
129-00-0	pyrene
56-38-2	parathion (ISO)
60-51-5	dimethoate (ISO)
62-53-3	aniline
88-85-7	dinoseb
298-00-0	parathion -methyl (ISO)
298-02-2	phorate (ISO)
298-04-4	disulfoton
465-73-6	(1alpha,4alpha,4aß,5ß,8ß8aß)-1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-dimethanonaphthalene
3689-24-5	sulfotep (ISO)

· **Section 313 (Specific toxic chemical listings):**	
67-56-1	methanol
62-75-9	dimethylnitrosoamine
67-72-1	hexachloroethane
77-47-4	hexachlorocyclopentadiene
87-68-3	hexachlorobuta-1,3-diene
131-11-3	dimethyl phthalate
84-74-2	dibutyl phthalate
86-30-6	nitrosodiphenylamine
132-64-9	dibenzofuran
193-39-5	indeno[1,2,3-cd]pyrene
206-44-0	fluoranthene
621-64-7	nitrosodipropylamine
53-70-3	dibenz[a,h]anthracene
91-20-3	naphthalene
95-50-1	1,2-dichlorobenzene
98-95-3	nitrobenzene
106-46-7	1,4-dichlorobenzene
111-44-4	bis(2-chloroethyl) ether

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111-91-1	bis(2-chloroethoxy)methane
117-81-7	bis(2-ethylhexyl) phthalate
118-74-1	hexachlorobenzene
120-82-1	1,2,4-trichlorobenzene
205-99-2	benz[e]acephenanthrylene
207-08-9	benzo[k]fluoranthene
541-73-1	1,3-dichlorobenzene
606-20-2	2,6-dinitrotoluene
50-32-8	benzo[a]pyrene
56-55-3	benz[a]anthracene
85-01-8	phenanthrene, pure
120-12-7	anthracene

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

67-56-1	methanol	ACTIVE
67-64-1	acetone	ACTIVE
62-75-9	dimethylnitrosoamine	ACTIVE
67-72-1	hexachloroethane	ACTIVE
77-47-4	hexachlorocyclopentadiene	ACTIVE
84-66-2	diethyl phthalate	ACTIVE
85-68-7	BBP	ACTIVE
87-68-3	hexachlorobuta-1,3-diene	ACTIVE
131-11-3	dimethyl phthalate	ACTIVE
84-74-2	dibutyl phthalate	ACTIVE
86-30-6	nitrosodiphenylamine	ACTIVE
117-84-0	dioctyl phthalate	ACTIVE
132-64-9	dibenzofuran	ACTIVE
193-39-5	indeno[1,2,3-cd]pyrene	ACTIVE
206-44-0	fluoranthene	ACTIVE
621-64-7	nitrosodipropylamine	ACTIVE
53-70-3	dibenz[a,h]anthracene	ACTIVE
78-59-1	3,5,5-trimethylcyclohex-2-enone	ACTIVE
91-20-3	naphthalene	ACTIVE
91-57-6	2-methylnaphthalene	ACTIVE
91-58-7	2-chloronaphthalene	ACTIVE
95-50-1	1,2-dichlorobenzene	ACTIVE
98-95-3	nitrobenzene	ACTIVE
101-55-3	4-Bromophenyl phenyl ether	ACTIVE
106-46-7	1,4-dichlorobenzene	ACTIVE
111-44-4	bis(2-chloroethyl) ether	ACTIVE
111-91-1	bis(2-chloroethoxy)methane	ACTIVE
117-81-7	bis(2-ethylhexyl) phthalate	ACTIVE
118-74-1	hexachlorobenzene	ACTIVE
120-82-1	1,2,4-trichlorobenzene	ACTIVE

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· **Hazardous Air Pollutants**	
67-56-1	methanol
62-75-9	dimethylnitrosoamine
67-72-1	hexachloroethane
77-47-4	hexachlorocyclopentadiene
87-68-3	hexachlorobuta-1,3-diene
131-11-3	dimethyl phthalate
84-74-2	dibutyl phthalate
132-64-9	dibenzofuran
193-39-5	indeno[1,2,3-cd]pyrene
206-44-0	fluoranthene
53-70-3	dibenz[a,h]anthracene
78-59-1	3,5,5-trimethylcyclohex-2-enone
91-20-3	naphthalene
98-95-3	nitrobenzene
106-46-7	1,4-dichlorobenzene
111-44-4	bis(2-chloroethyl) ether
117-81-7	bis(2-ethylhexyl) phthalate
118-74-1	hexachlorobenzene
120-82-1	1,2,4-trichlorobenzene
205-99-2	benz[e]acephenanthrylene
207-08-9	benzo[k]fluoranthene
50-32-8	benzo[a]pyrene
56-55-3	benz[a]anthracene
85-01-8	phenanthrene, pure
86-73-7	fluorene
120-12-7	anthracene
129-00-0	pyrene
218-01-9	chrysene
53-96-3	N-fluoren-2-ylacetamide
56-38-2	parathion (ISO)

· **Proposition 65**

· **Chemicals known to cause cancer:**	
62-75-9	dimethylnitrosoamine
67-72-1	hexachloroethane
87-68-3	hexachlorobuta-1,3-diene
86-30-6	nitrosodiphenylamine
193-39-5	indeno[1,2,3-cd]pyrene
621-64-7	nitrosodipropylamine
53-70-3	dibenz[a,h]anthracene
91-20-3	naphthalene
98-95-3	nitrobenzene
106-46-7	1,4-dichlorobenzene

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111-44-4	bis(2-chloroethyl) ether
117-81-7	bis(2-ethylhexyl) phthalate
118-74-1	hexachlorobenzene
205-99-2	benz[e]acephenanthrylene
207-08-9	benzo[k]fluoranthene
606-20-2	2,6-dinitrotoluene
50-32-8	benzo[a]pyrene
56-55-3	benz[a]anthracene
86-74-8	carbazole
218-01-9	chrysene
53-96-3	N-fluoren-2-ylacetamide
55-18-5	diethylnitrosoamine
56-38-2	parathion (ISO)
56-49-5	3-methylcholanthrene
57-97-6	7,12-dimethylbenz[a]anthracene
59-89-2	N-nitrosomorpholine
60-11-7	4-dimethylaminoazobenzene
62-44-2	phenacetin
62-50-0	ethyl methanesulphonate
62-53-3	aniline

· **Chemicals known to cause reproductive toxicity for females:**	
84-74-2	dibutyl phthalate
1912-24-9	atrazine (ISO)

· **Chemicals known to cause reproductive toxicity for males:**	
84-74-2	dibutyl phthalate
98-95-3	nitrobenzene
117-81-7	bis(2-ethylhexyl) phthalate
606-20-2	2,6-dinitrotoluene
528-29-0	1,2-dinitrobenzene
88-85-7	dinoseb
99-65-0	1,3-dinitrobenzene
100-25-4	1,4-dinitrobenzene
121-14-2	2,4-dinitrotoluene

· **Chemicals known to cause developmental toxicity:**	
67-56-1	methanol
85-68-7	BBP
84-74-2	dibutyl phthalate
117-81-7	bis(2-ethylhexyl) phthalate
118-74-1	hexachlorobenzene
88-85-7	dinoseb
143-50-0	chlordecone (ISO)
1912-24-9	atrazine (ISO)

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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**		
67-64-1	acetone	I
62-75-9	dimethylnitrosoamine	B2
67-72-1	hexachloroethane	L
77-47-4	hexachlorocyclopentadiene	E, NL
84-66-2	diethyl phthalate	D
85-68-7	BBP	C
87-68-3	hexachlorobuta-1,3-diene	C
131-11-3	dimethyl phthalate	D
84-74-2	dibutyl phthalate	D
86-30-6	nitrosodiphenylamine	B2
132-64-9	dibenzofuran	D
193-39-5	indeno[1,2,3-cd]pyrene	B2
206-44-0	fluoranthene	D
621-64-7	nitrosodipropylamine	B2
53-70-3	dibenz[a,h]anthracene	B2
78-59-1	3,5,5-trimethylcyclohex-2-enone	C
91-20-3	naphthalene	C, CBD
91-57-6	2-methylnaphthalene	I
95-50-1	1,2-dichlorobenzene	D
98-95-3	nitrobenzene	L
101-55-3	4-Bromophenyl phenyl ether	D
111-44-4	bis(2-chloroethyl) ether	B2
111-91-1	bis(2-chloroethoxy)methane	D
117-81-7	bis(2-ethylhexyl) phthalate	B2
118-74-1	hexachlorobenzene	B2
120-82-1	1,2,4-trichlorobenzene	D
205-99-2	benz[e]acephenanthrylene	B2
207-08-9	benzo[k]fluoranthene	B2
541-73-1	1,3-dichlorobenzene	D
50-32-8	benzo[a]pyrene	CaH

· **TLV (Threshold Limit Value)**		
67-64-1	acetone	A4
62-75-9	dimethylnitrosoamine	A3
67-72-1	hexachloroethane	A3
77-47-4	hexachlorocyclopentadiene	A4
84-66-2	diethyl phthalate	A4
87-68-3	hexachlorobuta-1,3-diene	A3
78-59-1	3,5,5-trimethylcyclohex-2-enone	A3
91-20-3	naphthalene	A4
91-57-6	2-methylnaphthalene	A4

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95-50-1	1,2-dichlorobenzene	A4
98-95-3	nitrobenzene	A3
106-46-7	1,4-dichlorobenzene	A3
111-44-4	bis(2-chloroethyl) ether	A4
117-81-7	bis(2-ethylhexyl) phthalate	A3
118-74-1	hexachlorobenzene	A3
205-99-2	benz[e]acephenanthrylene	A2
50-32-8	benzo[a]pyrene	A2
56-55-3	benz[a]anthracene	A2
218-01-9	chrysene	A3
56-38-2	parathion (ISO)	A4
62-53-3	aniline	A3
82-68-8	quintozene (ISO)	A4
90-12-0	1-methylnaphthalene	A4
91-59-8	2-naphthylamine	A1
91-94-1	3,3'-dichlorobenzidine	A3
92-67-1	biphenyl-4-ylamine	A1
92-87-5	benzidine	A1
95-53-4	o-toluidine	A3
99-55-8	5-nitro-o-toluidine	A3
100-01-6	p-nitroaniline	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**	
62-75-9	dimethylnitrosoamine
67-72-1	hexachloroethane
87-68-3	hexachlorobuta-1,3-diene
106-46-7	1,4-dichlorobenzene
111-44-4	bis(2-chloroethyl) ether
117-81-7	bis(2-ethylhexyl) phthalate
50-32-8	benzo[a]pyrene
218-01-9	chrysene
53-96-3	N-fluoren-2-ylacetamide
60-11-7	4-dimethylaminoazobenzene
62-53-3	aniline
91-59-8	2-naphthylamine
91-94-1	3,3'-dichlorobenzidine
92-67-1	biphenyl-4-ylamine
92-87-5	benzidine
95-53-4	o-toluidine
119-93-7	4,4'-bi-o-toluidine
123-91-1	1,4-dioxane
134-32-7	1-naphthylamine
143-50-0	chlordecone (ISO)

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

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· **Hazard pictograms**

GHS02 GHS06 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
methanol
acetone
dimethylnitrosoamine
nitrosodipropylamine

· **Hazard statements**
Highly flammable liquid and vapor.
Toxic if inhaled.
Causes serious eye irritation.
May cause cancer.
Causes damage to the central nervous system and the visual organs.
May cause drowsiness or dizziness.

· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
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.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
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.

· **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.

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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 preparation / last revision*** *04/15/2024*
· ***Abbreviations and acronyms:***
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
Acute Toxicity - Inhalation 3: Acute toxicity – Category 3
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Carcinogenicity 1A: Carcinogenicity – Category 1A
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1