

Safety Data Sheet

9 kinds of alkylphenol and bisphenol A in acetonitrile



Version : V2.0.0.1

Report No. : BWQ9981-2016-MSDS-EP

Creation Date : 2026/01/07

Revision Date : -

***Prepared in accordance with EU REACH Regulation (REACH 1907/2006 with amendment 2020/878)**

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name	9 kinds of alkylphenol and bisphenol A in acetonitrile
Cat No.	BWQ9981-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
REACH Registration Number	-
UFI	No information available

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

1.3 Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

1.4 Emergency telephone number

Emergency telephone number	010-58103678
Opening hours	24h

2 Hazards identification

2.1 CLP classification according to Regulation (EC) No. 1272/2008 with amendment 2023/707

Flammable liquids	Category 2
Acute Toxicity - Oral	Category 4
Acute Toxicity - Dermal	Category 4
Serious eye damage/irritation	Category 2
Acute Toxicity - Inhalation	Category 4

Hazardous to the aquatic environment - long-term (chronic) hazard	Category 3
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2.2 Label elements

Hazard pictograms	
Signal word	Danger

Hazard statements

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H319	Causes serious eye irritation
H332	Harmful if inhaled
H412	Harmful to aquatic life with long lasting effects
EUH208	Contains sensitising substance. May produce an allergic reaction

Precautionary statements

◆ Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing gas/mist/vapour/spray.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

◆ Response

P312	Call a POISON CENTRE/ doctor/... if you feel unwell.
P321	Specific treatment (see related instructions on the label).
P330	Rinse mouth.
P301+P312	IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	Small fire: dry chemical, CO ₂ or alcohol-resistant foam; Large fire: alcohol-resistant foam; Fire involving tanks, rail tank cars or highway tanks: Fight

	fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

◆ Storage

P403+P235	Store in a well-ventilated place. Keep cool.
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◆ Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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2.3 Other hazards

◆ Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Acetonitrile	Not PBT/vPvB
4,4'-isopropylidenediphenol	Not PBT/vPvB
4-tert-butylphenol	Not PBT/vPvB
4-butylphenol	Insufficient information, temporarily unable to evaluate
4-pentylphenol	Insufficient information, temporarily unable to evaluate
p-hexylphenol	Insufficient information, temporarily unable to evaluate
4-(1,1,3,3-tetramethylbutyl)phenol	Not PBT/vPvB
4-heptylphenol	Insufficient information, temporarily unable to evaluate
Phenol, 4-nonyl-, branched	Not PBT/vPvB
p-octylphenol	Insufficient information, temporarily unable to evaluate
p-nonylphenol	Insufficient information, temporarily unable to evaluate

◆ Results of endocrine disrupting properties assessment

Component	Results of endocrine disrupting properties assessment [according to (EU) No 2017/2100 or (EU) No 2018/605]
Acetonitrile	Insufficient information, temporarily unable to evaluate
4,4'-isopropylidenediphenol	ED
4-tert-butylphenol	Insufficient information, temporarily unable to evaluate
4-butylphenol	Insufficient information, temporarily unable to evaluate
4-pentylphenol	Insufficient information, temporarily unable to evaluate
p-hexylphenol	Insufficient information, temporarily unable to evaluate
4-(1,1,3,3-tetramethylbutyl)phenol	Insufficient information, temporarily unable to evaluate
4-heptylphenol	Insufficient information, temporarily unable to evaluate
Phenol, 4-nonyl-,	Insufficient information, temporarily unable to evaluate

branched	
p-octylphenol	Insufficient information, temporarily unable to evaluate
p-nonylphenol	Insufficient information, temporarily unable to evaluate

◆ Other

Not applicable.

3 Composition/information on ingredients

3.1 Substance

Not applicable

3.2 Mixture

Component	Weight % content(or range)	Classification according to Regulation (EC) No. 1272/2008 with amendment 2023/707 [CLP]	Specific Conc. Limits, M-factors
Acetonitrile CAS : 75-05-8 EC : 200-835-2 Index No. : 608-001-00-3	98.72	Flammable liquids, Category 2, H225; Acute Toxicity - Oral, Category 4, H302; Acute Toxicity - Dermal, Category 4, H312; Serious eye damage/irritation, Category 2, H319; Acute Toxicity - Inhalation, Category 4, H332	-
4,4'-isopropylidenediphenol CAS : 80-05-7 EC : 201-245-8 Index No. : 604-030-00-0	0.128	Sensitization - skin, Category 1, H317; Serious eye damage/irritation, Category 1, H318; Specific target organ toxicity - single exposure; respiratory tract irritation, Category 3, H335; Reproductive toxicity, Category 1B, H360; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	M=1;M(Chronic)=10
4-tert-butylphenol CAS : 98-54-4 EC : 202-679-0 Index No. : 604-090-00-8	0.128	Skin Corrosion/Irritation, Category 2, H315; Serious eye damage/irritation, Category 1, H318; Reproductive toxicity, Category 2, H361; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	M(Chronic)=1
4-butylphenol CAS : 1638-22-8 EC : 216-672-5 Index No. : -	0.128	Skin corrosion/irritation, Category 1B, H314	-
4-pentylphenol CAS : 14938-35-3 EC : 239-015-4 Index No. : -	0.128	Skin corrosion/irritation, Category 1B, H314	-
p-hexylphenol CAS : 2446-69-7 EC : 219-501-2 Index No. : -	0.128	Skin corrosion/irritation, Category 1B, H314	-
4-(1,1,3,3-tetramethylbutyl)phenol CAS : 140-66-9 EC : 205-426-2 Index No. : 604-075-00-6	0.128	Skin Corrosion/Irritation, Category 2, H315; Serious eye damage/irritation, Category 1, H318; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	M=10
4-heptylphenol	0.128	Acute Toxicity - Oral, Category 4, H302;	-

CAS : 1987-50-4 EC : 217-862-0 Index No. : -		Skin Corrosion/Irritation, Category 2, H315; Serious eye damage/irritation, Category 2, H319; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	
Phenol, 4-nonyl-, branched CAS : 84852-15-3 EC : 284-325-5 Index No. : 601-053-00-8	0.128	Acute Toxicity - Oral, Category 4, H302; Skin corrosion/irritation, Category 1B, H314; Reproductive toxicity, Category 2, H361; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
p-octylphenol CAS : 1806-26-4 EC : 217-302-5 Index No. : -	0.128	Skin corrosion/irritation, Category 1C, H314; Serious eye damage/irritation, Category 1, H318	-
p-nonylphenol CAS : 104-40-5 EC : 203-199-4 Index No. : -	0.128	Acute Toxicity - Oral, Category 4, H302; Skin corrosion/irritation, Category 1B, H314; Serious eye damage/irritation, Category 1, H318; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-

4 First-aid measures

4.1 Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Ingestion	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Give plenty of water to drink. Refer for medical attention.
Inhalation	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

4.2 Most important symptoms/effects, acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
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4.3 Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, CO ₂ or alcohol-resistant foam; Large fire: alcohol-resistant foam; Fire involving tanks, rail tank cars or highway tanks: Fight
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	fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out.
Unsuitable extinguishing media	Use of water spray when fighting fire may be inefficient.

5.2 Specific hazards arising from the substance or mixture

1	Will form explosive mixtures with air.
2	Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/or vapour concentration.
3	Vapours may travel to source of ignition and flash back.
4	Liquid and vapour are flammable.
5	May emit poisonous fumes on fire.
6	Development of hazardous combustion gases or vapor possible in the event of fire.
7	May expansion or decompose explosively when heated or involved in fire.

5.3 Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

1	Avoid breathing vapours and contacting with skin and eye.
2	Beware of vapours accumulating to form explosive concentrations.
3	Vapours can accumulate in low areas.
4	Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
5	Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
6	Do not touch or walk through spilled material.
7	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
8	Use personal protective equipment, do not breathe gas/mist/vapour/spray.
9	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
10	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

1	It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-static clothing.
2	In case of small amount of spillage, use clean non sparking tools to collect absorption materials.
3	In case of large amount of spillage, construct cofferdam or dig a hole to collect the spillage. Use foam cover to reduce evaporation. Water spray mist can reduce evaporation, but can not reduce the flammability of the leakage in the restricted space.
4	Collect absorbent material using a clean, non-sparking tool.
5	Cover with anti-solvent foam to reduce evaporation.

6	Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
7	Water spray reduces evaporation but does not reduce the flammability of spills in confined spaces.
8	Do not touch or cross spills.
9	It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-virus suits.
10	Spray water disperses the vapor and dilutes the liquid spill.
11	Do not touch broken containers and spills before putting on appropriate protective clothing.
12	Cut off the source of the leak as much as possible.
13	Keep leaks in a ventilated place.
14	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
15	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
16	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.
17	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

6.4 Reference to other sections

1	Personal Protective Equipment advice is contained in Section 8 of the SDS.
2	Disposal considerations advice is contained in Section 13 of the SDS.

7 Handling and storage

7.1 Precautions for safe handling

◆ Protective measures

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.

◆ Measures to prevent fire

1	Use only non-sparking tools.
2	To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
3	Use explosion proof equipment.
4	Keep away from heat/sparks/open flames/ hot surfaces.

◆ Measures to prevent aerosol and dust generation

1	Not applicable.
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◆ Advice on general occupational hygiene

1	Wash hands and face after using the substances.
2	Replace the contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

7.3 Specific end use(s)

1 | In addition to use mentioned in the Section 1.2, unforeseen other specific end uses.

8 Exposure controls/personal protection

8.1 Control parameters

◆ Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m ³	ppm	mg/m ³
Acetonitrile	Permissible exposure standards for workers in the workplace	40	67	60	100.5
	European Union	40	70	-	-
	France	40	70	-	-
	Germany (AGS)	10	17	20	34
	Germany (DFG)	10	17	20	34
	Italy	20	35	-	-
4,4'-isopropylidenediphenol	European Union	-	2	-	-
	France	-	2	-	-
	Germany (AGS)	-	5	-	5
	Germany (DFG)	-	5	-	5
	Italy	-	2	-	-
	United Kingdom	-	2	-	-
4-tert-butylphenol	Germany (AGS)	0.08	0.5	0.16	1
	Germany (DFG)	0.08	0.5	0.16	1
	Austria	0.08	0.5	0.4	2.5
	Denmark	0.08	0.5	0.16	1
	Switzerland	0.08	0.5	0.16	1
4-(1,1,3,3-tetramethylbutyl)phenol	Germany (AGS)	0.5	4	0.5	4
	Germany (DFG)	0.5	4.3	0.5	4.3
	Switzerland	0.5	4.3	0.5	4.3

◆ Biological limit values

Biological limit values	No relevant regulations
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◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 300 and GBZ/T 160 series standard Determination of toxic substances in workplace air.

◆ Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Acetonitrile	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
4,4'-isopropylidenediphenol	Inhalation	No data available	No data available	2 mg/m ³	2 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
4-tert-butylphenol	Inhalation	No data available	No data available	No data available	0.5 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
4-butylphenol	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
4-pentylphenol	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
p-hexylphenol	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
4-(1,1,3,3-tetramethylbutyl)phenol	Inhalation	No data available	No data available	No data available	0.8 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
4-heptylphenol	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Phenol, 4-nonyl-, branched	Inhalation	No data available	No data available	No data available	0.5 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
p-octylphenol	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
p-nonylphenol	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

◆ Predicted No Effect Concentration (PNEC)

Component	A	B	C	D	E	F	G	H
Acetonitrile	10 mg/L	1 mg/L	32 mg/L	40.5 mg/kg sediment dw	4.05 mg/kg sediment dw	No hazard identified	2.23 mg/kg soil dw	No potential for bioaccumulation
4,4'-isopropylidene diphenol	22.6 µg/L	19.3 µg/L	320 mg/L	1.2 mg/kg sediment dw	240 µg/kg sediment dw	No hazard identified	3.7 mg/kg soil dw	No potential for bioaccumulation
4-tert-butylphenol	10 µg/L	1 µg/L	1.5 mg/L	270 µg/kg sediment dw	27 µg/kg sediment dw	No hazard identified	250 µg/kg soil dw	46.67 mg/kg food
4-(1,1,3,3-tetramethylbutyl)phenol	632 ng/L	632 ng/L	100 µg/L	4.62 mg/kg sediment dw	1.23 mg/kg sediment dw	No hazard identified	2.3 mg/kg soil dw	2.36 mg/kg food
Phenol, 4-nonyl-, branched	610 ng/L	570 ng/L	9.5 mg/L	4.62 mg/kg sediment dw	1.23 mg/kg sediment dw	No hazard identified	2.3 mg/kg soil dw	2.36 mg/kg food

Note 1:

A: Freshwater; B: Seawater; C: Sewage treatment plant; D: Sediment (freshwater); E: Sediment (seawater); F: Air; G: Soil; H: Secondary poisoning(Hazard for Predators).

Note 2:

The PNEC values of the remaining components not shown in the product are not available yet.

8.2 Exposure controls

8.2.1 Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

8.2.2 Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear anti static chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear anti static chemical protective clothing and anti static shoes.

8.2.3 Environmental exposure controls

Environmental exposure controls	No information available
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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	clear or clear yellow liquid
Colour	clear or clear yellow liquid
Odor	No information available
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	-46 (Acetonitrile)
Initial boiling point and boiling range(°C)	82 (Acetonitrile)
Flash point(Closed cup, °C)	2 (Acetonitrile)
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit : 17 (Acetonitrile); Lower limit : 3 (Acetonitrile)
Vapor pressure	9.9kPa (25°C,Acetonitrile)
Vapor density(Air = 1)	1.4 (Acetonitrile)
Relative density(Water=1)	0.8 (Acetonitrile)
Solubility	1000000mg/L (25 °C,Acetonitrile)
n-octanol/water partition coefficient	-0.3 (Acetonitrile)
Auto-ignition temperature(°C)	524 (Acetonitrile)
Decomposition temperature(°C)	No information available
Kinematic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Particle characteristics	Not applicable

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Information with regard to physical hazard classes	No information available
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9.2.2 Other safety characteristics

Other safety characteristics	No information available
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10 Stability and reactivity

Stability and reactivity

10.1 Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
10.2 Chemical stability	Stable under proper operation and storage conditions.
10.3 Possibility of hazardous reactions	In contact with N-halogen compounds may cause a potensive explosive hazardous.
10.4 Conditions to avoid	Incompatible materials, heat, flame and spark.
10.5 Incompatible materials	N - halogenated compounds, sulfuric acid and strong oxidants.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 with amendment 2023/707

9 kinds of alkylphenol and bisphenol A in acetonitrile	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Causes serious eye irritation(Category 2)
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
p-nonylphenol	1620mg/kg(Rat)	No information available	No information available
4-tert-butylphenol	2950mg/kg(Rat)	2290mg/kg(Rabbit)	No information available
4-(1,1,3,3-tetramethylbutyl)phenol	4600mg/kg(Rat)	1880mg/kg(Rabbit)	No information available
Phenol, 4-nonyl-, branched	1300mg/kg(Rat)	No information available	No information available
4,4'-isopropylidenediphenol	3250mg/kg(Rat)	3590mg/kg(Rabbit)	No information available
Acetonitrile	2460mg/kg(Rat)	> 2000mg/kg(Rabbit)	4.748mg/L(Rabbit)

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Acetonitrile	Not Listed	Not Listed
4,4'-isopropylidenediphenol	Not Listed	Not Listed
4-tert-butylphenol	Not Listed	Not Listed
4-butylphenol	Not Listed	Not Listed
4-pentylphenol	Not Listed	Not Listed
p-hexylphenol	Not Listed	Not Listed
4-(1,1,3,3-tetramethylbutyl)phenol	Not Listed	Not Listed
4-heptylphenol	Not Listed	Not Listed
Phenol, 4-nonyl-, branched	Not Listed	Not Listed
p-octylphenol	Not Listed	Not Listed
p-nonylphenol	Not Listed	Not Listed

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Component	Endocrine disrupting properties
Acetonitrile	No information available
4,4'-isopropylidenediphenol	This substance is classified as a human endocrine disruptor, but there is currently no publicly available detailed assessment data.
4-tert-butylphenol	No information available
4-butylphenol	No information available
4-pentylphenol	No information available
p-hexylphenol	No information available
4-(1,1,3,3-tetramethylbutyl)phenol	No information available
4-heptylphenol	No information available
Phenol, 4-nonyl-, branched	No information available
p-octylphenol	No information available
p-nonylphenol	No information available

11.2.2 Other Information

Other Information	See Section 11.1
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12 Ecological information

12.1 Toxicity

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
p-nonylphenol	LC ₅₀ : 0.19mg/L (96h)(Fish)	EC ₅₀ : 0.13~0.14mg/L (48h)(Crustaceans)	No information available
4-tert-butylphenol	LC ₅₀ : 6.02mg/L (96h)(Fish)	EC ₅₀ : 3.9mg/L (48h)(Crustaceans)	No information available
p-octylphenol	LC ₅₀ : 0.088mg/L (96h)(Fish)	EC ₅₀ : 0.42mg/L (48h)(Crustaceans)	ErC ₅₀ : 0.14mg/L (72h)(Algae)
4-(1,1,3,3-tetramethylbutyl)phenol	LC ₅₀ : 0.36mg/L (96h)(Fish)	No information available	No information available
Phenol, 4-nonyl-, branched	LC ₅₀ : 0.096mg/L (96h)(Fish)	EC ₅₀ : 0.13mg/L (48h)(Crustaceans)	ErC ₅₀ : 0.41mg/L (96h)(Algae)
4,4'-isopropylidenediphenol	LC ₅₀ : 7.05mg/L (96h)(Fish)	EC ₅₀ : 13mg/L (48h)(Crustaceans)	ErC ₅₀ : 4.8mg/L (72h)(Algae)
Acetonitrile	LC ₅₀ : > 100mg/L (96h)(Fish)	EC ₅₀ : > 1000mg/L (48h)(Crustaceans)	ErC ₅₀ : >700mg/L (72h)(Algae)
4-pentylphenol	LC ₅₀ : 1.4mg/L (96h)(Fish)	EC ₅₀ : 0.90mg/L (48h)(Crustaceans)	ErC ₅₀ : 2.2mg/L (72h)(Algae)

Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
p-nonylphenol	NOEC : 0.0082mg/L(Fish)	No information available	No information available

p-octylphenol	No information available	NOEC : 0.11mg/L(Crustaceans)	NOEC : 0.021mg/L(Algae)
4,4'-isopropylidenediphenol	No information available	NOEC : 4.6mg/L(Crustaceans)	NOEC : 0.32mg/L(Algae)
Acetonitrile	NOEC : 102mg/L(Fish)	NOEC : >960mg/L(Crustaceans)	NOEC : 700mg/L(Algae)
4-pentylphenol	No information available	NOEC : 0.14mg/L(Crustaceans)	NOEC : 0.27mg/L(Algae)

12.2 Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
4,4'-isopropylidenediphenol	High(Half-life = 360 days)	Low(Half-life = 0.31 days)
4-tert-butylphenol	High	High
4-butylphenol	High	High
4-pentylphenol	High	High
4-(1,1,3,3-tetramethylbutyl)phenol	High	High
Phenol, 4-nonyl-, branched	High	High
p-nonylphenol	High	High

12.3 Bioaccumulative potential

Component	Bioaccumulative potential	Comments
4,4'-isopropylidenediphenol	Low	BCF=100
4-tert-butylphenol	Low	BCF=240
4-butylphenol	Low	Log Kow=3.65
4-pentylphenol	Medium	Log Kow=4.0245
4-(1,1,3,3-tetramethylbutyl)phenol	High	Log Kow=5.2756
Phenol, 4-nonyl-, branched	Low	BCF=271
p-nonylphenol	High	Log Kow=5.9889

12.4 Mobility in soil

Component	log Koc	Remark
Acetonitrile	0.653	
4,4'-isopropylidenediphenol	2.875	
4-tert-butylphenol	3.281	
4-butylphenol	3.455	
4-pentylphenol	3.721	
4-(1,1,3,3-tetramethylbutyl)phenol	≥4.36 - ≤5.69	22°C

Phenol, 4-nonyl-, branched	4.04	20 °C
p-nonylphenol	4.58	20 °C

12.5 Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Acetonitrile	Not PBT/vPvB
4,4'-isopropylidenediphenol	Not PBT/vPvB
4-tert-butylphenol	Not PBT/vPvB
4-butylphenol	Insufficient information, temporarily unable to evaluate
4-pentylphenol	Insufficient information, temporarily unable to evaluate
p-hexylphenol	Insufficient information, temporarily unable to evaluate
4-(1,1,3,3-tetramethylbutyl)phenol	Not PBT/vPvB
4-heptylphenol	Insufficient information, temporarily unable to evaluate
Phenol, 4-nonyl-, branched	Not PBT/vPvB
p-octylphenol	Insufficient information, temporarily unable to evaluate
p-nonylphenol	Insufficient information, temporarily unable to evaluate

12.6 Endocrine disrupting properties

Component	Endocrine disrupting properties
Acetonitrile	No information available
4,4'-isopropylidenediphenol	This substance is classified as an environmental endocrine disruptor, but detailed assessment data is not yet publicly available.
4-tert-butylphenol	No information available
4-butylphenol	No information available
4-pentylphenol	No information available
p-hexylphenol	No information available
4-(1,1,3,3-tetramethylbutyl)phenol	No information available
4-heptylphenol	It is demonstrated that endocrine disrupting properties for the environment occur for alkylphenyls with alkyl chain lengths of 4,5,7,8 and 9 C-atoms. 4-HPbl is able to bind to the estrogen receptors of fish and to activate these receptors. In a reliable long term study using Sander lucioperca the ratio of male fish (according to histological determination) was significantly decreased at the lowest 4-n-heptylphenol concentration (1 µg/L) after 28 days of exposure.
Phenol, 4-nonyl-, branched	No information available
p-octylphenol	No information available
p-nonylphenol	No information available

12.7 Other adverse effects

	No information available
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13 Disposal considerations

13.1 Waste treatment methods

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

Label and Mark

Transporting Label	
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IMDG-CODE

14.1 UN number	1992
14.2 UN proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S.
14.3 Transport hazard class	3+6.1
14.4 Packing group	II
14.5 Environmental hazards (Yes or no)	No

IATA-DGR

14.1 UN number	1992
14.2 UN proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S.
14.3 Transport hazard class	3+6.1
14.4 Packing group	II
14.5 Environmental hazards (Yes or no)	No

UN-ADR

14.1 UN number	1992
14.2 UN proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S.
14.3 Transport hazard class	3+6.1
14.4 Packing group	II
14.5 Environmental hazards (Yes or no)	No

Special precautions for user

	Transit should be anti-exposure, rain, high temperature. Strictly prohibited shipping or transportation with acids, alkalis, oxidants, food and food additives etc. Shipment of the goods vehicle exhaust pipe must be equipped with fire retardant devices, prohibit using mechanical equipment and tools of which easy to produce sparks. Transit should be anti-exposure, anti-rain, anti-high temperature. Transportation used tank (tank) cars should be grounded chain, tank can be installed to reduce the partition hole static electricity shocks. Strictly
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prohibited shipping or transportation with oxidants, acids, food and food additives etc. When bulk transport, Prohibit the use of cement or wooden boats. Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

Maritime transport in bulk according to IMO instruments

- ◆ Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

- ◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

- ◆ Transport in bulk in accordance with the IGC Code

Not Available

15 Regulatory information

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

International chemical inventory

Component	A	B	C	D	E	F	G	H	I	J	K	L	M
Acetonitrile	√	√	√	√	√	√	√	√	√	√	√	√	√
4,4'-isopropylidenediphenol	√	√	√	√	√	√	√	√	√	√	√	√	√
4-tert-butylphenol	√	√	√	√	√	√	√	√	√	√	√	√	√
4-butylphenol	√	√	√	√	×	√	×	√	√	×	×	√	√
4-pentylphenol	√	√	√	×	√	×	×	×	√	×	×	√	√
p-hexylphenol	×	√	√	×	×	×	×	×	√	×	×	√	√
4-(1,1,3,3-tetramethylbutyl)phenol	√	√	√	√	√	√	√	√	√	√	√	√	√
4-heptylphenol	√	√	√	√	×	√	×	×	√	×	×	√	√
Phenol, 4-nonyl-, branched	√	√	√	√	√	√	√	√	√	√	√	√	√
p-octylphenol	×	√	√	√	×	√	√	√	√	√	×	√	√
p-nonylphenol	√	√	√	√	√	√	√	√	√	√	√	√	√

- [A] China Inventory of Existing Chemical Substances(IECSC)
 [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
 [C] United States Toxic Substances Control Act Inventory(TSCA)
 [D] Canadian Domestic Substances List(DSL)
 [E] New Zealand Inventory of Chemicals(NZIoC)
 [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
 [G] Korea Existing Chemicals Inventory(KECL)
 [H] Australian. Inventory of Industrial Chemical (AIICS)
 [I] Japan Inventory of Existing & New Chemical Substances(ENCS)
 [J] Thailand Existing Chemicals Inventory(TECI)
 [K] Mexico National Inventory of Chemical Substances (INSQ)
 [L] Russia Inventory of Existing Substances(DRAFT)
 [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	A	B	C
Acetonitrile	x	x	x
4,4'-isopropylidenediphenol	x	x	x
4-tert-butylphenol	x	x	x
4-butylphenol	x	x	x
4-pentylphenol	x	x	x
p-hexylphenol	x	x	x
4-(1,1,3,3-tetramethylbutyl)phenol	x	x	x
4-heptylphenol	x	x	x
Phenol, 4-nonyl-, branched	x	x	x
p-octylphenol	x	x	x
p-nonylphenol	x	x	x

[A] The Montreal Protocol on Substances that Deplete the Ozone Layer

[B] Stockholm Convention on Persistent Organic Pollutants (POPs)

[C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

European chemical inventory

Component	A	B	C	D	E	F	G	H	I
Acetonitrile	x	x	x	√	√	x	x	x	x
4,4'-isopropylidene diphenol	√	x	√	√	√	√	x	x	x
4-tert-butylphenol	√	x	x	√	√	√	x	x	x
4-butylphenol	x	x	x	√	x	x	x	x	x
4-pentylphenol	x	x	x	√	x	x	x	x	x
p-hexylphenol	x	x	x	√	x	x	x	x	x
4-(1,1,3,3-tetramethylbutyl)phenol	√	x	x	√	√	x	√	x	x
4-heptylphenol	√	x	x	√	x	x	x	x	x
Phenol, 4-nonyl-, branched	√	x	x	√	√	√	√	x	x
p-octylphenol	x	x	x	√	x	x	√	x	x
p-nonylphenol	√	x	x	√	√	x	√	x	x

[A] Candidate list of Substances of Very High Concern for authorization under EU REACH regulation

[B] Substances requiring authorisation under EU REACH regulation

[C] Substances restricted under EU REACH

[D] Pre-registered substances under EU REACH

[E] Registered substances under EU REACH

[F] Substance Evaluation – CoRAP under EU REACH

[G] List of priority substances under EU water policy (Directive 2455/2001/EC)

[H] Substances subject to POPs Regulation

[I] Substances proposed as POPs

Note:

“√” Indicates that the substance included in the regulations.

“x” No data or not included in the regulations.

German water hazard class(WGK)

Component	WGK	Remark
Acetonitrile	WGK 2	
4,4'-isopropylidenediphenol	WGK 3	
4-tert-butylphenol	WGK 3	
4-(1,1,3,3-tetramethylbutyl)phenol	WGK 3	
Phenol, 4-nonyl-, branched	WGK 3	
p-nonylphenol	WGK 3	

【WGK 1】 slightly hazardous to water

【WGK 2】 obviously hazardous to water

【WGK 3】 highly hazardous to water

【nwg】 non-hazardous to water

【awg】 hazardous to water in general

German technical instructions on air quality control(TA LUFT)

Component	TA LUFT	Remark
4,4'-isopropylidenediphenol	Chapter 5.2.7.1.3 Substances toxic to reproduction Mass flow: 2,5 g/hr or Mass conc.: 1 mg/m ³	
4-tert-butylphenol	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas: Mass flow: 0,10 kg/hr or Mass conc.: 20 mg/m ³	
Phenol, 4-nonyl-, branched	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas: Mass flow: 0,10 kg/hr or Mass conc.: 20 mg/m ³	
p-octylphenol	Chapter 5.2.5 Organic Substances, dust, including fine dust. To be treated as overall dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values: Mass flow: 0,20 kg/hr or Mass conc.: 20 mg/m ³ The mass per unit volume of 0,15 g/m ³ in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h. For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m ³ .	
p-nonylphenol	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas: Mass flow: 0,10 kg/hr or Mass conc.: 20 mg/m ³	

German technical rules for hazardous substances(TRGS)

Component	TRGS	Remark
Acetonitrile	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 402 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	
4,4'-isopropylidenediphenol	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 402 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724 TRGS 560	
4-tert-butylphenol	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 402 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	
4-(1,1,3,3-tetramethylbutyl)phenol	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 402 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800	
Phenol, 4-nonyl-, branched	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800	
p-octylphenol	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800	
p-nonylphenol	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800	

15.2 Chemical safety assessment

	No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.
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16 Other information

Information on revision

Creation Date	2026/01/07
Revision Date	-
Reason for revision	-

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- [2] IARC, website: <http://www.iarc.fr/>.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.echemportal.org/echemportal/>.
- [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- [7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- [8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG-CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC _x	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P _{OW}	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor		

Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.