

## Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)  
Classification according to Regulation (EC) No. 1272/2008 [CLP]

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### Product identifier

<b>Product code</b>	17908
<b>Product name</b>	Phenol: Chloroform Isoamyl Alcohol Kit
<b>Unique Formula Identifier (UFI)</b>	Not Applicable
<b>Chemical Name</b>	Not Applicable
<b>REACH registration number</b>	No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

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

<b>Relevant identified uses</b>	For research use only. Not for use in diagnostic procedures
<b>Use Description Code</b>	SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen), PROC15 - Use as laboratory reagent, PC21 - Laboratory chemicals, SU24 - Scientific research and development
<b>Uses advised against</b>	Not for consumer use.

#### Details of the supplier of the safety data sheet

##### Manufacturer / Supplier

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**Product code** 17908

**Revision date** 10-Aug-2024  
**Product name** Phenol: Chloroform Isoamyl Alcohol Kit

Thermo Fisher Scientific  
Pierce Biotechnology  
P.O. Box 117  
Rockford, IL 61105  
United States  
1.815.968.0747 or  
1.800.874.3723

#### Emergency telephone number

**24 hour Emergency Response for Hazardous Materials** Within the USA + Canada: 1-800-424-9300 and  
**[or Dangerous Goods] Incident. Spill, Leak, Fire,** 1-703-527-3887  
**Exposure, or Accident. Call CHEMTREC** Outside the USA + Canada: 1-703-741-5970

#### Country Specific Emergency Number (if available):

CHEMTREC Ireland (Dublin) +(353)-19014670 (Greeting Language: English and Irish)  
CHEMTREC UK (London) +(44)-870-8200418 (Greeting Language: English)

## SECTION 2: Hazards identification

### Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

##### Physical hazards

Not classified

##### Health hazards

Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Acute inhalation toxicity	Category 3
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 2
Reproductive Toxicity	Category 2
Specific target organ toxicity - Repeated exposure	Category 1

##### Environmental hazards

Not classified

##### Additional information

Not Applicable

### Label elements

#### Labelling according to Regulation (EC) No 1272/2008 [CLP]

#### Hazard pictograms

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**Signal Word**

Danger

**Hazard Statements**

H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled  
H314 - Causes severe skin burns and eye damage  
H341 - Suspected of causing genetic defects  
H351 - Suspected of causing cancer  
H361 - Suspected of damaging fertility or the unborn child  
H372 - Causes damage to organs through prolonged or repeated exposure

**EU Specific Hazard Statements**

Not Applicable

**Precautionary Statements****Prevention**

P201 - Obtain special instructions before use  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 - Wash hands thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P270 - Do not eat, drink or smoke when using this product  
P202 - Do not handle until all safety precautions have been read and understood

**Response**

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P308 + P313 - IF exposed or concerned: Get medical advice/attention  
P314 - Get medical advice/attention if you feel unwell  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P330 - Rinse mouth

**Storage**

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

**Disposal**

P501 - Dispose of contents/ container to an approved waste disposal plant

**Other hazards**

This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

### Mixtures

We recommend handling all chemicals with caution.

Chemical Name	CAS No	EINECS-No.	Weight-%	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Chloroform	67-66-3	-	40-50	-	Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Acute Tox. 3 - H331 Carc. 2 - H351 STOT RE 1 - H372 Repr. 2 - H361d
1-Butanol, 3-methyl-	123-51-3	204-633-5	1-5	-	Flam. Liq. 3 - H226 Tox. 4 Irrit. 2 - H315 Irrit. 2 - H319 STOT SE 3 - H335
Phenol	108-95-2	203-632-7	40-50	-	Muta. 2 - H341 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 STOT RE 2 - H373

Chemical Name	Specific concentration limit (SCL)	M-Factor	Acute Toxicity Estimate
Chloroform	-	-	-
1-Butanol, 3-methyl-	-	-	-
Phenol	Eye Irrit. 2 (H319) :: 1%≤C<3% Skin Corr. 1B (H314) :: C≥3% Skin Irrit. 2 (H315) :: 1%≤C<3%	-	-

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## SECTION 4: First aid measures

### Description of first aid measures

<b>Skin contact</b>	Rinse skin with water. Immediate medical attention is not required.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Ingestion</b>	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
<b>Inhalation</b>	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
<b>Notes to Physician</b>	Treat symptomatically.

### Most important symptoms and effects, both acute and delayed

H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled H314 - Causes severe skin burns and eye damage H341 - Suspected of causing genetic defects H351 - Suspected of causing cancer H361 - Suspected of damaging fertility or the unborn child H372 - Causes damage to organs through prolonged or repeated exposure

### Indication of any immediate medical attention and special treatment needed

Get medical advice/attention if you feel unwell. Wear protective gloves/protective clothing and eye/face protection. Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

## SECTION 5: Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
<b>Unsuitable extinguishing media</b>	No information available.

**Special hazards arising from the substance or mixture** Not known

<b>Hazardous Combustion Products</b>	No data available.
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**Advice for firefighters** Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

### **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment

See section 8 for more information

### **Environmental precautions**

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

### **Methods and material for containment and cleaning up**

Soak up with inert absorbent material.

### **Reference to other sections**

See section 8 for more information.

## SECTION 7: Handling and storage

### **Precautions for safe handling**

Use personal protective equipment as required. No special handling advices are necessary.

### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

### **Conditions for safe storage, including any incompatibilities**

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

### **Storage Conditions**

Store at 2 °C to 8 °C

### **Specific end use(s)**

For research use only. Not for use in diagnostic procedures.

## SECTION 8: Exposure controls/personal protection

### Control parameters

Chemical Name	EU OEL (TWA)	EU OEL (STEL)	EU Skin Notation
Chloroform 67-66-3	2 ppm 10 mg/m <sup>3</sup>	None	Possibility of significant uptake through the skin
1-Butanol, 3-methyl- 123-51-3	18 mg/m <sup>3</sup> @ 10 5 ppm @ 10	37 mg/m <sup>3</sup> 10 ppm	None
Phenol 108-95-2	2 ppm 8 mg/m <sup>3</sup>	4 ppm 16 mg/m <sup>3</sup>	Possibility of significant uptake through the skin

Chemical Name	Austria	Belgium (TWA)	Czech Republic
Chloroform 67-66-3	2 ppm 10 mg/m <sup>3</sup>	2 ppm 10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> TWA 20 mg/m <sup>3</sup> Ceiling Irritant Potential for cutaneous absorption Potential chronic health effects
1-Butanol, 3-methyl- 123-51-3	5 ppm 18 mg/m <sup>3</sup> 100 ppm 360 mg/m <sup>3</sup>	5 ppm 18 mg/m <sup>3</sup>	18 mg/m <sup>3</sup> TWA 37 mg/m <sup>3</sup> Ceiling (listed under 433) Irritant (listed under 433)
Phenol 108-95-2	2 ppm 8 mg/m <sup>3</sup>	2 ppm 8 mg/m <sup>3</sup>	7.5 mg/m <sup>3</sup> TWA 15 mg/m <sup>3</sup> Ceiling Irritant Potential for cutaneous absorption

Chemical Name	Denmark (TWA)	Finland OEL (TWA)	France OEL (VME)
Chloroform 67-66-3	2 ppm 10 mg/m <sup>3</sup>	None	2 ppm 10 mg/m <sup>3</sup>
1-Butanol, 3-methyl- 123-51-3	5 ppm 18 mg/m <sup>3</sup>	None	5 ppm 18 mg/m <sup>3</sup>
Phenol 108-95-2	1 ppm 4 mg/m <sup>3</sup>	20 mg/m <sup>3</sup> 5 ppm	2 ppm 7.8 mg/m <sup>3</sup>

Chemical Name	Germany OEL (TWA)	Ireland (TWA)	Italy OEL (TWA)
Chloroform 67-66-3	0.5 ppm exposure factor 2 2.5 mg/m <sup>3</sup> exposure factor 2	2 ppm 9.8 mg/m <sup>3</sup>	2 ppm 10 mg/m <sup>3</sup>
1-Butanol, 3-methyl- 123-51-3	20 ppm exposure factor 2 73 mg/m <sup>3</sup> exposure factor 2	5 ppm 18 mg/m <sup>3</sup>	18 mg/m <sup>3</sup> 5 ppm
Phenol 108-95-2	2 ppm exposure factor 2 8 mg/m <sup>3</sup> exposure factor 2	2 ppm 8 mg/m <sup>3</sup>	2 ppm 8.0 mg/m <sup>3</sup>

Chemical Name	Lithuania OEL (TWA)	Netherlands OEL (MAC)	Norway
Chloroform 67-66-3	10 mg/m <sup>3</sup> 2 ppm	1 ppm 5 mg/m <sup>3</sup>	2 ppm TWA 10 mg/m <sup>3</sup> TWA 20 mg/m <sup>3</sup> STEL 4 ppm STEL
1-Butanol, 3-methyl- 123-51-3	18 mg/m <sup>3</sup> 5 ppm	5 ppm 18 mg/m <sup>3</sup>	18 mg/m <sup>3</sup> TWA 5 ppm TWA 50 ppm TWA 180 mg/m <sup>3</sup> TWA 37 mg/m <sup>3</sup> STEL 10 ppm STEL 75 ppm STEL 225 mg/m <sup>3</sup> STEL
Phenol 108-95-2	2 ppm 8 mg/m <sup>3</sup>	2 ppm 8 mg/m <sup>3</sup>	1 ppm TWA 4 mg/m <sup>3</sup> TWA 3 ppm STEL 12 mg/m <sup>3</sup> STEL

Chemical Name	Poland	Portugal	Spain OEL (TWA)
Chloroform 67-66-3	8 mg/m <sup>3</sup> TWA Skin Notation	2 ppm TWA 10 mg/m <sup>3</sup> TWA skin - potential for cutaneous	2 ppm 10 mg/m <sup>3</sup>

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		exposure A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	
1-Butanol, 3-methyl- 123-51-3	18 mg/m <sup>3</sup> TWA 37 mg/m <sup>3</sup> STEL	5 ppm TWA 18 mg/m <sup>3</sup> TWA 10 ppm STEL 37 mg/m <sup>3</sup> STEL	5 ppm 18 mg/m <sup>3</sup>
Phenol 108-95-2	7.8 mg/m <sup>3</sup> TWA Skin Notation 16 mg/m <sup>3</sup> STEL	2 ppm TWA 8 mg/m <sup>3</sup> TWA 4 ppm STEL 16 mg/m <sup>3</sup> STEL skin - potential for cutaneous exposure A4 - Not Classifiable as a Human Carcinogen	2 ppm 8 mg/m <sup>3</sup>

Chemical Name	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	United Kingdom
Chloroform 67-66-3	2 ppm TLV NGV 10 mg/m <sup>3</sup> TLV NGV	1 ppm STEL 5 mg/m <sup>3</sup> STEL 0.5 ppm TWA 2.5 mg/m <sup>3</sup> TWA	2 ppm TWA 9.9 mg/m <sup>3</sup> TWA
1-Butanol, 3-methyl- 123-51-3	5 ppm TLV NGV 18 mg/m <sup>3</sup> TLV NGV	40 ppm STEL 150 mg/m <sup>3</sup> STEL 80 ppm STEL 290 mg/m <sup>3</sup> STEL 20 ppm TWA 75 mg/m <sup>3</sup> TWA	100 ppm TWA 366 mg/m <sup>3</sup> TWA
Phenol 108-95-2	1 ppm TLV NGV 4 mg/m <sup>3</sup> TLV NGV	5 ppm STEL 19 mg/m <sup>3</sup> STEL 5 ppm TWA 19 mg/m <sup>3</sup> TWA	2 ppm TWA 7.8 mg/m <sup>3</sup> TWA

#### Derived No Effect Level (DNEL)

See table for values

Component	Acute effects local (Dermal)	Acute effects systemic (Dermal)	Chronic effects local (Dermal)	Chronic effects systemic (Dermal)
Chloroform 67-66-3 ( 40-50 )	None	None	None	DNEL = 0.94mg/kg bw/day
1-Butanol, 3-methyl- 123-51-3 ( 1-5 )	None	None	None	None
Phenol 108-95-2 ( 40-50 )	None	None	None	DNEL = 1.23mg/kg bw/day

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Chloroform 67-66-3 ( 40-50 )	None	DNEL = 333mg/m <sup>3</sup>	DNEL = 2.5mg/m <sup>3</sup>	DNEL = 2.5mg/m <sup>3</sup>
1-Butanol, 3-methyl- 123-51-3 ( 1-5 )	DNEL = 292mg/m <sup>3</sup>	None	DNEL = 73.16mg/m <sup>3</sup>	None
Phenol 108-95-2 ( 40-50 )	DNEL = 16mg/m <sup>3</sup>	None	None	DNEL = 8mg/m <sup>3</sup>

#### Predicted No Effect Concentration (PNEC)

See table for values

Chemical Name	Fresh water sediment	Fresh water	Water Intermittent	Microorganisms in sewage treatment	Soil (Agriculture)
Chloroform 67-66-3	PNEC = 0.45mg/kg sediment dw	None	PNEC = 0.133mg/L	PNEC = 0.048mg/L	PNEC = 0.56mg/kg soil dw
1-Butanol, 3-methyl-	PNEC = 0.496mg/kg	None	PNEC = 1.2mg/L	PNEC = 37mg/L	PNEC = 0.0287mg/kg

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123-51-3	sediment dw				soil dw
Phenol 108-95-2	PNEC = 0.0915mg/kg sediment dw	None	PNEC = 0.031mg/L	PNEC = 2.1mg/L	PNEC = 0.136mg/kg soil dw

Component	Marine water	Marine water sediment	Marine water Intermittent	Food chain	Air
Chloroform 67-66-3 ( 40-50 )	PNEC = 0.015mg/L	PNEC = 0.09mg/kg sediment dw	None	None	None
1-Butanol, 3-methyl- 123-51-3 ( 1-5 )	PNEC = 0.012mg/L	PNEC = 0.0496mg/kg sediment dw	None	None	None
Phenol 108-95-2 ( 40-50 )	PNEC = 0.00077mg/L	PNEC = 0.00915mg/kg sediment dw	None	None	None

### Engineering Measures

Ensure adequate ventilation, especially in confined areas.

### Exposure controls

#### Personal protection equipment

##### Respiratory protection

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

##### Hand protection

Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

##### Eye protection

Tight sealing safety goggles.

##### Skin and Body Protection

Wear suitable protective clothing.

##### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

##### Environmental exposure controls

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state	liquid	
Colour	No data	
Odour	No data	
Molecular Weight	No data	
Melting point / melting range	°C No data	°F No data
Boiling point / boiling range	°C No data	°F No data
Flammability (solid, gas)	No data	
Lower explosion limit	No data	
Upper explosion limit	No data	
Flash point	°C No data	°F No data
Autoignition Temperature	°C No data	°F No data
Decomposition temperature	°C No data	°F No data
pH	No data	
Evaporation rate	No data	
Viscosity	No data	
Solubility	No data	
Partition coefficient: n-octanol/water	No data	
Vapour Pressure	No data	
Specific gravity	No data	
Relative density	No data	
Vapour density	No data	
Explosive properties	No data	
Oxidising properties	No data	
Particle characteristics	No data	

### Other information

#### Information with regards to physical hazard classes

No information available

#### Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

<b>Reactivity</b>	None known.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous reaction has not been reported.
<b>Conditions to avoid</b>	No information available.
<b>Incompatible materials</b>	No dangerous reaction known under conditions of normal use.
<b>Hazardous decomposition products</b>	No data available.

## SECTION 11: Toxicological information

### Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Product Information** No acute toxicity information is available for this product

### Acute Toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Chloroform	= 450 mg/kg (Rat)	> 20 g/kg(Rabbit)	=47702mg/m <sup>3</sup> (Rat)
1-Butanol, 3-methyl-	= 5770 mg/kg (Rat)	= 3250 mg/kg(Rabbit)	>2000ppm(Rat)
Phenol	= 340 mg/kg (Rat)	= 630 mg/kg(Rabbit)	No data available

### Principal Routes of Exposure

**Skin corrosion/irritation** Causes severe burns

**Serious eye damage/irritation** Causes serious eye damage

**Respiratory or skin sensitisation** Data are conclusive but insufficient for classification

**Specific target organ toxicity (STOT) – single exposure** Data are conclusive but insufficient for classification

**Specific target organ toxicity (STOT) – repeated exposure** May cause damage to organs through prolonged or repeated exposure Target organ(s): Liver & Kidneys

**Carcinogenicity** Contains a known or suspected carcinogen

**Germ cell mutagenicity** Germ cell mutagenicity category 2

**Reproductive Toxicity** May damage fertility or the unborn child

**Aspiration Hazard** Data are conclusive but insufficient for classification

### Information on other hazards

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

## SECTION 12: Ecological information

### Toxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
Chloroform	No data available	Daphnia magna EC50=29 mg/L (48 h)	No data available	No data available	logPow2
1-Butanol, 3-methyl-	Desmodesmus subspicatus EC50=181 mg/L (96 h) Desmodesmus subspicatus EC50=493 mg/L (72 h)	Daphnia magna EC50=260 mg/L (48 h)	No data available	No data available	logPow1.35
Phenol	Desmodesmus subspicatus EC50 187 - 279 mg/L (72 h) Pseudokirchneriella subcapitata EC50 46.42 mg/L (96 h)	Daphnia magna EC50 4.24 - 10.7 mg/L (48 h) Daphnia magna EC50 10.2 - 15.5 mg/L (48 h)	No data available	No data available	logPow1.47

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

**Mobility in soil** No information available.

**Results of PBT and vPvB assessment** No information available.

### Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors

### Other adverse effects

**Persistent Organic Pollutant** This product does not contain any known or suspected substance

**Ozone depletion potential (ODP)** This product does not contain any known or suspected substance

## SECTION 13: Disposal considerations

### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

## SECTION 14: Transport information

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**IATA / ADR / DOT-US / IMDG**

Classified as dangerous in the meaning of transport regulations

<b>UN number or ID number</b>	2810
<b>UN proper shipping name</b>	Toxic liquid, organic, n.o.s. (Phenol/Chloroform solution)
<b>Transport hazard class(es)</b>	6.1
<b>Packing group</b>	II

**Environmental hazards**

Not Applicable

**Special precautions for user**

Not Applicable

**Maritime transport in bulk according to IMO instruments**

Not Applicable.

**SECTION 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****Substances of Very High Concern**

None

**Substance subject to authorisation per REACH Annex XIV**

None

**Restricted substances under EC 1907/2006, Annex XVII**

<b>Chemical Name</b>	<b>Weight-%</b>	<b>EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances</b>
Chloroform	40-50	Use restricted. See entry 32. Use restricted. See entry 75.
Phenol	40-50	Use restricted. See entry 75.

**Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)**

<b>Chemical Name</b>	<b>Weight-%</b>	<b>EU - Export and Import Restrictions (649/2012) - Chemicals Subject to Export Notification Procedure</b>	<b>EU - Export and Import Restrictions (649/2012) - Chemicals and Articles Subject to Export Ban</b>	<b>EU - Export and Import Restrictions (649/2012) - Chemicals Subject to the PIC Procedure under the Rotterdam Convention</b>	<b>EU - Export and Import Restrictions (649/2012) - Chemicals Qualifying for PIC Notification</b>
Chloroform	40-50	Banned as an industrial chemical for public use			

**Regulation (EU) No 2019/1021 (Stockholm Convention – persistent organic pollutants)**

None

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**EU - Substances Depleting the Ozone layer (1005/2009)**

None

**German Water hazard classes (Wassergefährdungsklassen)**

Chemical Name	Weight-%	Water hazard class (WGK)
Chloroform	40-50	hazard class 3 - highly hazardous to water
1-Butanol, 3-methyl-	1-5	hazard class 1 - slightly hazardous to water
Phenol	40-50	hazard class 2 - obviously hazardous to water

**Other International Inventories**

Chemical Name	EINECS (European Union)	ELINCS (European List of Notified Chemical Substances)	ENCS (Japan)	PICCS (Philippines)
Chloroform	Listed	-	Listed	Listed
1-Butanol, 3-methyl-	Listed	-	Listed	Listed
Phenol	Listed	-	Listed	Listed

Chemical Name	AICS (Australia)	South Korea (KECL)	Canada (DSL)	NDSL
Chloroform	Listed	Listed	Listed	-
1-Butanol, 3-methyl-	Listed	Listed	Listed	-
Phenol	Listed	Listed	Listed	-

**Chemical safety assessment**

No Chemical safety assessment has been carried out.

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## SECTION 16: Other information

**Reason for revision** Update according to Commission Regulation EU No. 2020/878  
**Revision number** 4  
**Revision date** 10-Aug-2024

### References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Acute oral toxicity	Category 3	Calculation method
Acute dermal toxicity	Category 3	Calculation method
Acute inhalation toxicity	Category 3	Calculation method
Skin corrosion/irritation	Category 1	Calculation method
Serious eye damage/eye irritation	Category 1	Calculation method
Germ cell mutagenicity	Category 2	Calculation method
Carcinogenicity	Category 2	Calculation method
Reproductive Toxicity	Category 2	Calculation method
Specific target organ toxicity - Repeated exposure	Category 1	Calculation method

### Abbreviations and acronyms

**TWA** - Time-Weighted Average  
**OELs** - Occupational Exposure Limits  
**STEL** - Short Term Exposure Limit  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**CEPA** - Canadian Environmental Protection Act  
**EPA** - Environmental Protection Agency  
**OSHA** - Occupational Safety and Health Administration of the US Department of Labour  
**IATA** - International Air Transport Association  
**DOT** - Department of Transportation  
**IMDG** - International Maritime Dangerous Goods  
**ACGIH** - American Conference of Governmental Industrial Hygienists  
**NIOSH** - National Institute for Occupational Safety and Health  
**AIHA** - American Industrial Hygiene Association  
**HMIS** - Department of Defense Hazardous Materials Information System  
**NTP** - National Toxicology Program  
**IARC** - International Agency for Research on Cancer

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006.

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