

Safety Data Sheet

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

Identification of the substance or mixture

Product code AM9720

Product name ACID PHENOL:CHLOROFORM 100 ML

Company/undertaking identification

Thermo Fisher Scientific Baltics UAB

V.Graiciuno 8

LT-02241 Vilnius

Burlington, ONT

CANADA LT 644

Lithuania CANADA L7L 6A4
Tel.: +370 5 2602131 800/263-6236

Fax.: +370 5 2602142

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 CHEMTRECOutside the USA + Canada: 1-703-741-5970

Country Specific Emergency Number (if available):

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SECTION 2: Hazards identification

GHS Classification

Signal Word DANGER

Hazard pictograms



Health hazards

Houlth hazardo	
Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Acute inhalation toxicity - vapor	Category 3
Skin corrosion/irritation	Category 1 B
Specific target organ toxicity (STOT) – repeated exposure	Category 1

Carcinogenicity	Category 2
Reproductive Toxicity	Category 2
Germ cell mutagenicity	Mutagenic category 2

Physical hazards

Not classified

Environmental hazards

Not classified

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

Precautionary Statements

Prevention

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

Response

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

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

Not Applicable

HMIS

Health	4 * Chronic Hazard
Flammability	0
Reactivity	0

SECTION 3: Composition/information on ingredients

Chemical Name	CAS No.	Common name	EINECS-No	Weight-%
Chloroform	67-66-3	Not applicable	200-663-8	10 - 30
Phenol	108-95-2	Not applicable	203-632-7	30 - 60

We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Description of first aid measures

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Remove and

wash contaminated clothing and gloves, including the inside, before re-use.

Immediate medical attention is required.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediate medical attention is required.

Ingestion Do not induce vomiting without medical advice. If swallowed, rinse mouth with

water (only if the person is conscious). Get medical attention if symptoms occur.

Inhalation Remove to fresh air. If symptoms persist, call a physician.

Notes to Physician 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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. 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.

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SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO₂). Foam. Dry chemical. No information available.

Special hazards arising from the substance or mixture

Carbon oxides

Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

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

Prevent product from entering drains.

Methods and material for containment and cleaning up

Ventilate the area. 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

Avoid breathing vapors or mists. Avoid contact with eyes, skin and clothing. Wash hands before breaks and immediately after handling the product. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

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

Specific end use(s)

For In Vitro Diagnostic Use.

SECTION 8: Exposure controls/personal protection

Control parameters

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Chloroform	None	50 ppm	10 ppm	None
		240 mg/m ³		
Phenol	5 ppm	None	5 ppm	None
	19 mg/m ³			

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Chemical Name	Brazil - OEL - TWAs (LTs)	Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations
Chloroform	20 ppm	None	None
	94 mg/m ³		
Phenol	4 ppm	None	skin designation
	15 mg/m ³		_

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Exposure controls

Personal Protective 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

Prevent product from entering drains.

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state liquid Color No data Odor characteristic **Molecular Weight** No data

°C No data °F No data Melting point / melting range Boiling point / boiling range °C No data °F No data

Flammability (solid, gas) No data available

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

Evaporation rate No data **Viscosity** No data

Solubility No data available Partition coefficient: No data available

n-octanol/water

No data **Vapor Pressure** Specific gravity No data Relative density No data No data Vapor density **Explosive properties** No data **Oxidizing properties** No data **Particle characteristics** No data

Other information

Information with regard to physical hazard classes

No information available

Other safety characteristics

No information available

SECTION 10: Stability and reactivity

Reactivity None known.

Stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

Conditions to avoid Heat.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

Carbon oxides. Hydrogen chloride gas.

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SECTION 11: Toxicological information

Information on toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Chloroform	= 450 mg/kg (Rat)	> 20 g/kg(Rabbit)	=47702mg/m ³ (Rat)
Phenol	= 340 mg/kg (Rat)	= 630 mg/kg(Rabbit)	No data available

Principal Routes of Exposure

Acute toxicity Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

Skin corrosion/irritation Causes severe burns

Serious eye damage/irritation Causes serious eye damage

Respiratory or skin

sensitization

Data are conclusive but insufficient for classification

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

Specific target organ toxicity May cause damage to organs through prolonged or repeated exposure (STOT) – repeated exposure

Carcinogenicity Contains a known or suspected carcinogen

Germ cell mutagenicity Product is or contains a chemical which may cause mutations in the germ cells of

humans.

Reproductive toxicity Product is or contains a chemical which is a known or suspected reproductive

hazard

Aspiration hazard Data are conclusive but insufficient for classification

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SECTION 12: Ecological information

Toxicity

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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
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	logPow1.47

Mobility in soil No information available.

Persistence and degradability Readily biodegradable.

Bioaccumulative potential No information available.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available.

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

IATA / ADR / DOT-US / IMDG

Classified as dangerous in the meaning of transport regulations

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA)

This product is classified as dangerous goods, per the International Air Transport Association.

UN number or ID number 2810

UN proper shipping name TOXIC LIQUID, ORGANIC, N.O.S.

(PHENOL/CHLOROFORM SOLUTION)

Transport hazard class(es) 6.1
Packing group III

Marine pollutant

No

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Environmental hazards

IMDG Marine pollutant: No

Special precautions for user

Not Applicable

Maritime transport in bulk according to IMO instruments

Not Applicable.

SECTION 15: Regulatory information

Component	US TSCA
Chloroform	Listed
67-66-3 (10 - 30)	
Phenol	Listed
108-95-2 (30 - 60)	

US Federal Regulations

SARA 313

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers.

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold
			<u>Values</u>
Chloroform	67-66-3	10 - 30	0.1
Phenol	108-95-2	30 - 60	1.0

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs

<u>Component</u>	CAS No.	Weight-%	HAPS data
Chloroform	67-66-3	10 - 30	Present
67-66-3 (10 - 30)			
Phenol	108-95-2	30 - 60	Present
108-95-2 (30 - 60)			

US State Regulations

Chemical Name	Massachusetts - RTK (Right-to-Know)	New Jersey - RTK (Right-to-Know)	Pennsylvania - RTK (Right-to-Know)
Chloroform	Listed	Listed	Listed
Phenol	Listed	Listed	Listed

California Proposition 65

This product contains the following Proposition 65 chemicals:.

Chemical Name	CAS No.	Weight-%	<u>Category</u>
Chloroform	67-66-3	10 - 30	Carcinogen
			Developmental

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WHMIS Hazard Class

D2A - Very toxic materials E - Corrosive material



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

National Regulations - Brazil

Chemical Name	CAS No.	Brazil - National Agency for Sanitary Surveillance (ANVISA)	Brazil - National List of Carcinogen Agents to Humans (LINACH)
Chloroform	67-66-3	Schedule D2	Group 2B
			Group 2A
Phenol	108-95-2	Not Listed	Not Listed

SECTION 16: Other information

Reason for revision SDS sections updated.

Revision number 7

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For In Vitro Diagnostic Use.

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

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 Labor

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

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AIHA - American Industrial Hygiene Association

HMIS - Department of Defense Hazardous Materials Information System

NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

End of Safety Data Sheet

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