

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

1.1. Product identifier

Product form : Mixture
Name : Lactophenol (cotton blue) solution for microscopy
Trade name : Lactophenol (cotton blue) solution for microscopy
UFI : Y550-80QH-900K-H63S
Product code : LACP-00D

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

Relevant identified uses

Main use category : Laboratory use

1.3. Details of the supplier of the safety data sheet

labbox labware s.l.
Migjorn, 1
P.O. Box Barcelona (SPAIN)
08338 Premià de Dalt, SPAIN
ES
T +34 937 07 79 70, F +34 937 909 532
info@labbox.com, www.labbox.com

1.4. Emergency telephone number

Emergency number : +34 937 077 970 (Technic information.Office hours.) Servicio de Información Toxicológica (Instituto Nacional de Toxicología y Ciencias Forenses) Teléfono: +34 91 5620420.Información en español (24h/365 días). Únicamente con la finalidad de proporcionar respuesta sanitaria en caso de urgencia (ONLY IN CASE OF EMERGENCY)"

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 3 H301
Acute toxicity (dermal), Category 3 H311
Acute toxicity (inhal.), Category 3 H331
Skin corrosion/irritation, Category 1 H314
Serious eye damage/eye irritation, Category 1 H318
Germ cell mutagenicity, Category 2 H341
Specific target organ toxicity — Repeated exposure, Category 2 H373

Full text of H and EUH statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Lactophenol (cotton blue) solution for microscopy

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: Phenol crystallized

Hazard statements (CLP)

: H301 - Toxic if swallowed.
H311 - Toxic in contact with skin.
H331 - Toxic if inhaled.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H341 - Suspected of causing genetic defects.
H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.
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.
P308+P313 - IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

PBT: not relevant – no registration required

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	Disodium hydrogen aminomethyl[[4-[(sulphonatophenyl)amino]phenyl][4-[(sulphonatophenyl)imino]cyclohexa-2,5-dien-1-ylidene]methyl]benzenesulphonate (249-113-9)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glycerol	CAS-No.: 56-81-5 EC-No.: 200-289-5 REACH-no: 01-2119471987-18	40	Not classified
LACTIC ACID	CAS-No.: 50-21-5 EC-No.: 200-018-0	20	Not classified

Lactophenol (cotton blue) solution for microscopy

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phenol crystallized	CAS-No.: 108-95-2 EC-No.: 203-632-7 EC Index-No.: 604-001-00-2 REACH-no: 05-2118478411-42	10	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 Muta. 2, H341 STOT RE 2, H373
Disodium hydrogen aminomethyl[[4-[(sulphonatophenyl)amino]phenyl][4-[(sulphonatophenyl)imino]cyclohexa-2,5-dien-1-ylidene]methyl]benzenesulphonate	CAS-No.: 249-113-9 EC-No.: 28631-66-5	0,1	Not classified

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Phenol crystallized	CAS-No.: 108-95-2 EC-No.: 203-632-7 EC Index-No.: 604-001-00-2 REACH-no: 05-2118478411-42	(1 ≤ C < 3) Eye Irrit. 2; H319 (1 ≤ C < 3) Skin Irrit. 2; H315 (3 ≤ C < 100) Skin Corr. 1B; H314

Full text of H and EUH statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.
First-aid measures after ingestion	: Rinse mouth. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: Cough. May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: redness, itching, tears.
Symptoms/effects after ingestion	: Abdominal pain, nausea.

4.3. Indication of any immediate medical attention and special treatment needed

Never give anything by mouth to an unconscious person.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Foam. Dry powder. Carbon dioxide.
------------------------------	--

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Combustible liquid.
-------------	-----------------------

Lactophenol (cotton blue) solution for microscopy

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

5.3. Advice for firefighters

Precautionary measures fire	: Stop leak if safe to do so.
Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Combustible.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not inhale vapour. Remove ignition sources.

For non-emergency personnel

Emergency procedures : Do not breathe vapours.

For emergency responders

Protective equipment : Use personal protective equipment as required. Do not attempt to take action without suitable protective equipment.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation. Absorb spillage to prevent material damage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not eat, drink or smoke when using this product.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed.

Incompatible materials : Heat sources. Sources of ignition. Direct sunlight.

Storage temperature : 15 – 25 °C

Storage area : Store away from heat. Store in a well-ventilated place.

Special rules on packaging : Keep only in original container. Store in a closed container.

7.3. Specific end use(s)

Laboratory chemicals.

Lactophenol (cotton blue) solution for microscopy

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Lactophenol (cotton blue) solution for microscopy	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	16 mg/m ³
	4 ppm
Phenol crystallized (108-95-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Phenol
IOEL TWA	8 mg/m ³
	2 ppm
IOEL STEL	16 mg/m ³
	4 ppm
Remark	skin
France - Occupational Exposure Limits	
Local name	Phénol
VME (OEL TWA)	7,8 mg/m ³
	2 ppm
VLE (OEL Ceiling/STEL)	15,6 mg/m ³
	4 ppm
Remark	Valeurs réglementaires contraignantes; risque de pénétration percutanée; substance classée mutagène de catégorie 2
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Phenol
AGW (OEL TWA)	8 mg/m ³
	2 ppm
Remark	EU,H,11
Italy - Occupational Exposure Limits	
Local name	Fenolo
OEL TWA	8 mg/m ³
	2 ppm
OEL STEL	16 mg/m ³
	4 ppm
Portugal - Occupational Exposure Limits	
Local name	Fenol
OEL TWA	5 ppm
Spain - Occupational Exposure Limits	
Local name	Fenol
VLA-ED (OEL TWA)	8 mg/m ³

Lactophenol (cotton blue) solution for microscopy

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Phenol crystallized (108-95-2)	
	2 ppm
VLA-EC (OEL STEL)	16 mg/m ³
	4 ppm
Remark	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país).

United Kingdom - Occupational Exposure Limits	
Local name	Phenol
WEL TWA (OEL TWA)	7,8 mg/m ³
	2 ppm
WEL STEL	16 mg/m ³
	4 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)

Glycerol (56-81-5)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	10 mg/m ³
France - Occupational Exposure Limits	
Local name	Glycérine
VME (OEL TWA)	10 mg/m ³ (aérosols)
Remark	Valeurs recommandées/admises
Spain - Occupational Exposure Limits	
Local name	Glicerina
VLA-ED (OEL TWA)	10 mg/m ³ nieblas
United Kingdom - Occupational Exposure Limits	
Local name	Glycerol
WEL TWA (OEL TWA)	10 mg/m ³ mist

DNEL and PNEC

Lactophenol (cotton blue) solution for microscopy	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	8 µg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	1,23 mg/kg bodyweight

Lactophenol (cotton blue) solution for microscopy

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Lactophenol (cotton blue) solution for microscopy	
PNEC (Water)	
PNEC aqua (freshwater)	0,0077 mg/l
PNEC aqua (marine water)	0,00077 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,09125 mg/kg dw
PNEC sediment (marine water)	0,00915 mg/kg dw
PNEC (Soil)	
PNEC soil	0,136 mg/kg dw

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Do not inhale vapour.

Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. EN 374.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Safety glasses

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Butyl rubber	6 (> 480 minutes)	0.70 mm		EN ISO 374

Other skin protection

Materials for protective clothing:

Wear safety footwear

Respiratory protection

Respiratory protection:

Wear appropriate mask

Respiratory protection			
Device	Filter type	Condition	Standard
			EN 136, EN 140, EN 14387

Lactophenol (cotton blue) solution for microscopy

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Environmental exposure controls

Other information:

The present safety data sheet is consistent with the specific conditions relied on to justify the registration of the substance in accordance with Article 17 or 18 of the REACH regulation. Do not eat, drink or smoke during use. Wash hands with water as a precaution.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: dark blue.
Appearance	: Liquid.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 1,2 – 1,5
Viscosity, kinematic	: Not available
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1,16 g/cm ³ 20° C
Relative density	: 1,16
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Oxidizing materials.

10.4. Conditions to avoid

Overheating.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

Lactophenol (cotton blue) solution for microscopy

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Toxic if swallowed.
Acute toxicity (dermal) : Toxic in contact with skin.
Acute toxicity (inhalation) : Toxic if inhaled.

Lactophenol (cotton blue) solution for microscopy

LD50 oral rat	317 mg/kg
LD50 oral	3540 mg/kg
LD50 dermal rat	850 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 7,94 mg/l
ATE CLP (vapours)	3 mg/l/4h
ATE CLP (dust,mist)	0,5 mg/l/4h

Phenol crystallized

LD50 dermal rat	660 mg/kg
-----------------	-----------

Glycerol (56-81-5)

LD50 oral rat	27 mg/kg bodyweight Animal: rat, Animal sex: female
---------------	---

Skin corrosion/irritation : Causes severe skin burns.
pH: 1,2 – 1,5

Phenol crystallized (108-95-2)

pH	5 5%, 20° C
----	-------------

Serious eye damage/irritation : Causes serious eye damage.
pH: 1,2 – 1,5

Phenol crystallized (108-95-2)

pH	5 5%, 20° C
----	-------------

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Suspected of causing genetic defects.
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Phenol crystallized

LOAEL (dermal, rat/rabbit, 90 days)	260 mg/kg bodyweight Animal: rabbit
NOAEL (dermal, rat/rabbit, 90 days)	130 mg/kg bodyweight Animal: rabbit
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Phenol crystallized (108-95-2)

Viscosity, kinematic	3,772 mm²/s
----------------------	-------------

Glycerol (56-81-5)

Viscosity, kinematic	1119,746 mm²/s
----------------------	----------------

Lactophenol (cotton blue) solution for microscopy

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life. Toxic to soil organisms.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

Lactophenol (cotton blue) solution for microscopy

LC50 - Fish [1]	20,5 ($\leq$ 25) mg/l
EC50 - Daphnia [1]	12,6 mg/l
EC50 72h - Algae [1]	84,5 mg/l

Phenol crystallized

EC50 72h - Algae [1]	180 mg/l Test organisms (species): Dunaliella tertiolecta
EC50 72h - Algae [2]	217,6 mg/l Test organisms (species): Dunaliella tertiolecta
NOEC (chronic)	0,16 mg/l Test organisms (species): Daphnia magna Duration: '16 d'
NOEC chronic fish	0,077 mg/l Test organisms (species): other: Cirrhina mrigala Duration: '60 d'

Glycerol (56-81-5)

LC50 - Fish [1]	54000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
-----------------	---

12.2. Persistence and degradability

Lactophenol (cotton blue) solution for microscopy

Persistence and degradability	Product is biodegradable.
Biochemical oxygen demand (BOD)	1,4 – 1,68 g O ₂ /g substance
ThOD	2,26 – 2,4 g O ₂ /g substance

Phenol crystallized

Persistence and degradability	Readily biodegradable.
Biodegradation	> 70 %

LACTIC ACID (50-21-5)

Persistence and degradability	Rapidly degradable
-------------------------------	--------------------

Glycerol (56-81-5)

Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	0,87 g O ₂ /g substance
Chemical oxygen demand (COD)	1,16 g O ₂ /g substance
ThOD	1,217 g O ₂ /g substance
BOD (% of ThOD)	0,71 % ThOD

Lactophenol (cotton blue) solution for microscopy

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Disodium hydrogen aminomethyl[[4-
[(sulphonatophenyl)amino]phenyl][4-
[(sulphonatophenyl)imino]cyclohexa-2,5-
dien-1-ylidene]methyl]benzenesulphonate (249-113-9)

Persistence and degradability

Rapidly degradable

12.3. Bioaccumulative potential

Phenol crystallized

Partition coefficient n-octanol/water (Log Pow)

1,46

Glycerol (56-81-5)

Partition coefficient n-octanol/water (Log Pow)

-1,75 25 °C

Bioaccumulative potential

No bioaccumulation.

12.4. Mobility in soil

Glycerol (56-81-5)

Surface tension

0,0634 N/m

12.5. Results of PBT and vPvB assessment

Lactophenol (cotton blue) solution for microscopy

PBT: not relevant – no registration required

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by
endocrine disrupting properties

: Not applicable.

12.7. Other adverse effects

Other adverse effects

: Marine pollutant. Do not discharge into drains or rivers.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

: Disposal must be done according to official regulations.

Waste treatment methods

: Must follow special treatment according to local regulation.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR)

: UN 2922

UN-No. (IMDG)

: UN 2922

UN-No. (IATA)

: UN 2922

UN-No. (ADN)

: UN 2922

UN-No. (RID)

: UN 2922

14.2. UN proper shipping name

Proper Shipping Name (ADR)

: CORROSIVE LIQUID, TOXIC, N.O.S.

Proper Shipping Name (IMDG)

: CORROSIVE LIQUID, TOXIC, N.O.S.

Proper Shipping Name (IATA)

: Corrosive liquid, toxic, n.o.s.

Proper Shipping Name (ADN)

: CORROSIVE LIQUID, TOXIC, N.O.S.

Lactophenol (cotton blue) solution for microscopy

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Proper Shipping Name (RID)	: CORROSIVE LIQUID, TOXIC, N.O.S.
Transport document description (ADR) (ADR)	: UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (Lactophenol (cotton blue) solution), 8 (6.1), II, (E)
Transport document description (IMDG)	: UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (Lactophenol (cotton blue) solution), 8 (6.1), II
Transport document description (IATA)	: UN 2922 Corrosive liquid, toxic, n.o.s. (Lactophenol (cotton blue) solution), 8 (6.1), II
Transport document description (ADN)	: UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (Lactophenol (cotton blue) solution), 8 (6.1), II
Transport document description (RID)	: UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (Lactophenol (cotton blue) solution), 8 (6.1), II

14.3. Transport hazard class(es)

ADR	
Transport hazard class(es) (ADR)	: 8 (6.1)
Danger labels (ADR)	: 8, 6.1
	:



IMDG	
Transport hazard class(es) (IMDG)	: 8 (6.1)
Danger labels (IMDG)	: 8, 6.1
	:



IATA	
Transport hazard class(es) (IATA)	: 8 (6.1)
Danger labels (IATA)	: 8, 6.1
	:



ADN	
Transport hazard class(es) (ADN)	: 8 (6.1)
Danger labels (ADN)	: 8, 6.1
	:



RID	
Transport hazard class(es) (RID)	: 8 (6.1)
Danger labels (RID)	: 8, 6.1
	:



14.4. Packing group

Packing group (ADR)	: II
Packing group (IMDG)	: II
Packing group (IATA)	: II
Packing group (ADN)	: II
Packing group (RID)	: II

Lactophenol (cotton blue) solution for microscopy

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

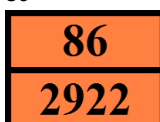
14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Other information	: No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: CT1
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Hazard identification number (Kemler No.)	: 86
Orange plates	:



Tunnel restriction code (ADR)	: E
EAC code	: 2X
APP code	: B

Transport by sea

Special provisions (IMDG)	: 274
Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes. Toxic if swallowed, by skin contact or by inhalation.

Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8P

Inland waterway transport

Classification code (ADN)	: CT1
Special provisions (ADN)	: 274, 802
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E2

Lactophenol (cotton blue) solution for microscopy

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP, TOX, A
Ventilation (ADN) : VE02
Number of blue cones/lights (ADN) : 2

Rail transport

Classification code (RID) : CT1
Special provisions (RID) : 274
Limited quantities (RID) : 1L
Excepted quantities (RID) : E2
Packing instructions (RID) : P001, IBC02
Mixed packing provisions (RID) : MP15
Portable tank and bulk container instructions (RID) : T7
Portable tank and bulk container special provisions (RID) : TP2
Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 2
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW28
Colis express (express parcels) (RID) : CE6
Hazard identification number (RID) : 86

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(b)	Lactophenol (cotton blue) solution for microscopy
3(c)	Lactophenol (cotton blue) solution for microscopy

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Lactophenol (cotton blue) solution for microscopy

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

National regulations

Germany

- Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
- Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

- SZW-lijst van kankerverwekkende stoffen : None of the components are listed
- SZW-lijst van mutagene stoffen : None of the components are listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

- Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Lactophenol (cotton blue) solution for microscopy

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:

H331	Toxic if inhaled.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated exposure.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.