Safety Data Sheet

BIO-38032

BIO-38033

TRIsure™





Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of original issue: 05/09/2019 Current revision: 29/07/2020 Version 1.1 Supersedes: 05/09/2019 Version 1.0

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

1.1 Product identifier

Product form: Mixture

Product name: TRIsure™

CAS No.: N/A

EC No.: N/A

REACH No.: A registration number is not available for this substance as the

substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is

envisaged for a later registration deadline.

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

Relevant identified uses: Product for analytical use

Uses advised against: Not described

1.3 Details of the supplier of the safety data sheet

Bioline Reagents Ltd, part of Meridian Bioscience

Humber Road Phone: +44 (0)20 8830 5300 London Fax: +44 (0)20 8452 2822

NW2 6EW E-mail: mbi.tech@meridianlifescience.com

United Kingdom

1.4 Emergency telephone number

Emergency number: +44 (0)1865 407 333 – English speaking (24 hours, 7 days)

Contact: CareChem 24

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

TRIsure™

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Inhalation (Category 3), H331

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Dermal (Category 3), H311

Eye irritant, (Category 2), H319

Skin corrosion (Category 1B), H314

Germ cell mutagenicity (Category 2), H341

Specific target organ toxicity - repeated exposure (Category 2), H373

Chronic aquatic toxicity (Category 2), H411

EUH032 Contact with acids liberates very toxic gas.

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2.2 Label elements

According to **CLP (GHS)** inner packages must be only labelled with symbol(s) and product identificator (EU 1272/2008 Annex I - 1.5.1.2).

Harmful chemicals/mixtures with signal word: **WARNING** must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2).

TRIsure™

Labelling according Regulation (EC) No 1272/2008



GHS Pictogram

Signal Word: DANGER

Hazard Statements (CLP)	Precautionary Statements (CLP)
H301, H311 & H331 Toxic if swallowed, in contact with	P201 - Obtain special instructions before use.
skin or if inhaled.	P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
H314 - Causes severe skin burns and eye damage.	P280 - Wear protective gloves/ protective clothing/ eye
H341 - Suspected of causing genetic defects.	protection/ face protection.
H373 - May cause damage to organs through	P301, P330, P331 & P310 - IF SWALLOWED: Rinse mouth.
prolonged or repeated exposure.	Do NOT induce vomiting. Immediately call a POISON
H411 - Toxic to aquatic life with long lasting effects.	CENTER or doctor/ physician.
EUH032 - Contact with acids liberates very toxic gas.	P303, P361 & P353 - IF ON SKIN (or hair): Take off
	immediately all contaminated clothing. Rinse skin with
	water/shower.
	P304, P340 & P310 - IF INHALED: Remove person to fresh
	air and keep comfortable for breathing. Immediately call a
	POISON CENTER or doctor/ physician.
	P305, P351 & P338 IF IN EYES: Rinse cautiously with water
	for several minutes. Remove contact lenses, if present and
	easy to do. Continue rinsing.

2.3 Other hazards

Possible hazards from physicochemical properties:

Some hazards associated with individual components of this mixture are not relevant because the substances are present in concentrations below the GHS cut-off levels, change of physical state or because the mixture/ solution is buffered to pH 4-9 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.).

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Vesicant. Rapidly absorbed through skin.

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SECTION 3: Composition/information on ingredients

3.1/3.2 Substance or Mixture

TRIsure™

Name, synonyms and	Product Identifier	Composition	Classification according to
formulae			Regulation (EC) No.
			1272/2008 (CLP)
Hydroxybenzene, carbolic	(CAS No.) 108-95-2	<40%	Acute Tox. 3; Skin Corr.
acid, oxybenzene, phenol,	(EC No.) 203-632-7		1B; Muta. 2; STOT RE 2;
phenylic acid.			Aquatic Chronic 2; H301,
			H331, H311, H314, H341,
C6H6O			H373, H411 Concentration
			limits: >= 3 %: Skin Corr.
			1B, H314; 1 - < 3 %: Skin
			Irrit. 2, H315; 1 - < 3 %:
			Eye Irrit. 2, H319;
Guanidinium rhodanide,	(CAS No.) 593-84-0	<15	Acute Tox. 4; Skin Corr.
Guanidinium thiocyanate.	(EC No.) 209-812-1		1B; Aquatic Chronic 3;
			H302, H332, H312, H314,
CH5N3 - CHNS			H412
Ammonium rhodanide,	(CAS No.) 1762-95-4	<10	Acute Tox. 4; Aquatic
Thiocyanic acid,	(EC No.) 217-175-6		Chronic 3; H332, H312,
ammonium salt.			H302, H412
CH4N2S			
Glycerol,	(CAS No.) 56-81-5	~5%	Not a hazardous
1,2,3-Propanetriol	(EC No.) 200-289-5		substance or mixture
Glycerin			
C3H8O3			

3.3 Remarks

List of H, EUR and P phrases: see section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aid measures general	Consult a physician. Show this safety data sheet to the medical professional
	in attendance.
First-aid measures after inhalation	Remove to fresh air, keep the patient warm and provide resuscitation if
	necessary. Consult a physician.
First-aid measures after skin contact	Remove contaminated clothing. Where possible, swab affected areas with
	Phenol Dermal exposure kit containing Polyethylene glycol 300, alternatively
	rinse the affected skin or mucous membrane thoroughly under running
	water. Consult a physician.
First-aid measures after eye contact	After contact with the eyes rinse thoroughly with plenty of water for at least
	15 minutes with the eyelid wide open. Consult a physician.
First-aid measures after ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious
	person. Rinse mouth and drink plenty of water. Consult a physician.

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4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling section 2.2 and/or in section 11.

Phenol causes strong caustic burns of the skin and mucous membranes due to its protein degenerating action. The skin initially discolours white, later red. After initial pain, local anaesthesia appears.

Absorptive poisoning by large amounts of phenol is possible also through small affected skin regions and quickly leads to paralysis of the central nervous system as well as strong depression of the body temperature.

Inhaling phenol vapours can lead to damage of the bronchial system and pulmonal oedema. Systemic damage to kidneys, liver and heart as well as neuropsychiatric disturbances are produced.

4.3 Indication of any immediate medical attention and special treatment needed

No additional recommendations.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area.

Suitable extinguishing media	Use DRY POWDER or CARBON DIOXIDE. In case of more serious fires,
	also alcohol-resistant foam.
Unsuitable extinguishing media	None known.

5.2 Special hazards arising from the substance or mixture

Fire Hazard	Not flammable.
Hazardous decomposition products in	Carbon oxides, Nitrogen oxides, Sulphur oxides, Hydrogen bromide gas,
case of fire	Sodium oxides.

5.3 Advice for firefighters

Firefighting instructions	Product package burns like paper or plastic.
	Spray any vapours released with water.
	Retain fire water where possible.
Protection during firefighting	Protective breathing apparatus, independent of the ambient air (isolated
	equipment), and sealed protective clothing is necessary in the event of large-
	scale formation of toxic substances.

5.4 Additional Information

None.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Evacuate unnecessary personnel.
	Avoid breathing vapours, mist or gas.
	Avoid contact with skin, eyes and clothing.
	Regular staff training is necessary, indicating hazards and precautions on
	the basis of operating instructions.
	Restrictions on activity must be observed.
For emergency responders	Wear suitable protective equipment as defined in section 8.2
	Prevent further leakage or spillage if safe to do so.
	Avoid release of materials into the environment.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Small Scale release	Make use of general chemical spill kit or other absorbent material.
	Clean any contaminated equipment and floors with plenty of water.
	Collect small amounts of leaked liquid and dispose via appropriate chemical
	waste stream.
Large Scale release	Bind any escaping liquid with inert absorbent material (sand, vermiculite or
	similar).
	Block/ prevent liquid entering any open drain.
	Collect contaminated materials and dispose in accordance to local
	regulations for the disposal of hazardous chemicals.

6.4 Reference to other sections

SECTION 5.4: Additional fire precautions.

SECTION 8: Exposure controls/personal protection.

SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling	Handling in accordance with the instructions supplied with the product.
	Provide adequate ventilation.
	Avoid breathing vapours, mist or gas.
	Avoid contact with skin, eyes and clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
	Take off contaminated clothing and wash before reuse.
	Wash hands and other exposed areas with mild soap and water before
	eating, drinking or smoking and when leaving work.

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7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Keep only in the original container.
	Some components of this product are photosensitive.
	Store in a cool well ventilated place out of direct sunlight.
	Keep container closed when not in use.
	Hygroscopic.
Incompatible materials	Store separately from: Strong oxidizers, Strong bases, Strong acids,
	Cyanides, Forms shock-sensitive mixtures with certain other materials., Lead
	Nitrate.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Hydroxybenzene		
United Kingdom	WEL TWA (mg/m³)	8 mg/m ³
United Kingdom	WEL TWA (ppm)	2 ppm
United Kingdom	WEL STEL (mg/m³)	16 mg/m³
United Kingdom	WEL STEL (ppm)	4 ppm
United Kingdom	Remark (WEL)	Identifies the possibility of significant uptake
		through the skin. The assigned substances are
		those for which there are concerns that dermal
		absorption
		will lead to systemic toxicity.
Guanidinium rhodanide	,	
United Kingdom	WEL TWA (mg/m³)	N/A
United Kingdom	WEL TWA (ppm)	N/A
United Kingdom	WEL STEL (mg/m³)	N/A
United Kingdom	WEL STEL (ppm)	N/A
United Kingdom	Remark (WEL)	Contains no substances with occupational
		exposure limit values.
Ammonium rhodanide		
United Kingdom	WEL TWA (mg/m³)	N/A
United Kingdom	WEL TWA (ppm)	N/A
United Kingdom	WEL STEL (mg/m³)	N/A
United Kingdom	WEL STEL (ppm)	N/A
United Kingdom	Remark (WEL)	Contains no substances with occupational
		exposure limit values.
Glycerol		
United Kingdom	WEL TWA (mg/m³)	10 mg/m ³
United Kingdom	WEL TWA (ppm)	N/A
United Kingdom	WEL STEL (mg/m³)	N/A
United Kingdom	WEL STEL (ppm)	N/A
United Kingdom	Remark (WEL)	Where no specific short-term exposure limit is
		listed, a figure three
		times the long-term exposure should be used.

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8.2 Exposure controls

Appropriate engineering controls:	Good ventilation or extraction system in the room, floor resistant to
	chemicals and washing facilities available.
General controls	Avoid all unnecessary exposure.
	Handle in accordance with good industrial hygiene and safety practice.
Respiratory protection	Respiratory protection not normally required.
	For nuisance exposures or if risk assessment requires, use type OV/AG (US)
	or type ABEK (EU EN 14387) respirator cartridges. Use respirators and
	components tested and approved under appropriate government standards
	such as NIOSH (US) or CEN (EU).
Eye protection	Use equipment for eye protection tested and approved under appropriate
	government standards such as NIOSH (US) or EN166 (EU) with integrated
	side shields or wrap-around protection.
Hand protection	Handle with gloves.
	Gloves must be inspected prior to use. Use proper glove removal technique
	(without touching glove's outer surface) to avoid skin contact with this
	product.
	Wear protective gloves that satisfy the specifications of EU Directive
	89/686/EEC and the standard EN374 derived from it.
	Exact breakthrough times to be found through the manufacturer of the
	protective gloves and must be observed.
	Gloves should be removed and replaced if there are any signs of
	degradation or breakthrough.
	Splash contact – Material suggested Nitrile Rubber.
	Full contact – Material suggested Butyl Rubber.
	If used in solution, or mixed with other substances, and under conditions
	which differ from EN374, contact the supplier of the CE approved gloves.
Skin and body protection	Long sleeved protective clothing.
Thermal protection	Not required for normal conditions of use.
Other information	Eating, drinking, smoking, taking snuff and storage of food in work areas and
	at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and
	clothing. Rinse any clothing on which the substance has been spilled, and
	soak it in water. Wash hands thoroughly with soap and water when stopping
	work and before eating.

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

TRIsure™	
Physical state:	Liquid
Colour:	Green
Molecular Mass:	No data available
Odour:	Odourless
Odour threshold:	No data available
pH:	No data available
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	Not applicable
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	~1.0 g/cm³ (Water = 1)
Solubility:	No data available
Log Pow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Oxidising properties:	No data available
Explosive properties:	No data available
Explosive limits:	No data available

9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

Relevant Properties of Substance Group: None

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under recommended conditions.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Extremely high or low temperatures.

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10.5 Incompatible materials

Strong oxidizers, Strong bases, Strong acids, Cyanides, Forms shock-sensitive mixtures with certain other materials., Lead Nitrate.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions - Carbon oxides, Nitrogen oxides, Sulphur oxides, Hydrogen bromide gas, Sodium oxides.

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hydroxybenzene	
LD50 oral rat	317 mg/kg
LC50 inhalation rat 8hr	900 mg/m ³
LD50 Dermal rabbit	630 mg/kg
RTECS:	SJ3325000
Guanidinium rhodanide	
LD50 oral rat	593 mg/kg
LC50 inhalation rat 4hr	5.319 mg/L
LC50 dermal rabbit	>2000 mg/m³
LD50 intraperitoneal mouse	300 mg/kg
TSCA Inventory:	Listed
California Proposition 65 List:	Not listed
Australia NICNAS:	Not listed
Canada CEPA 1999:	DSL Yes
Japan CSCL/PRTR:	Not listed
Japan PDSCL:	Not listed
Japan ISHL:	Not listed
South Korea TCCA:	Not listed
Korea Exist.Chem.Inventory:	Not listed
RTECS:	Not listed
Ammonium rhodanide	
LD50 oral rat	750 mg/kg
RTECS:	XK7875000

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Glycerol		
LD50 oral rat	12,600 mg/kg	
LC50 inhalation rat 4hr	>2.75 mg/l	
LD50 Dermal rabbit	>10,000 mg/kg	
LD50 Dermal guinea pig	56750 mg/kg	
TSCA Inventory:	Listed (1,2,3-Propanetriol)	
California Proposition 65 List:	Not listed	
Australia NICNAS:	Not listed	
Canada CEPA 1999:DSL:	Not listed	
Japan CSCL/PRTR:	Not listed	
Japan PDSCL:	Not listed	
Japan ISHL:	Not listed	
South Korea TCCA:	Not listed	
Korea Exist.Chem.Inventory:	KE-29297	
RTECS:	MA8050000	

Quantitative data on the toxicity of this product is not available.

TRIsure™	
Acute toxicity	Inhalation, Oral and Dermal Category 3
Additional information	Based on the cumulative concentrations of Hydroxybenzene, Guanidinium rhodanide and Ammonium rhodanide in the solution.
Skin corrosion/irritation	Skin corrosion Category 1B
Additional information	Based on the cumulative concentrations of Hydroxybenzene and Guanidinium rhodanide in the solution.
Serious eye damage/irritation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Germ cell mutagenicity Category 2
Additional information	Based on the concentration of Hydroxybenzene in the solution.
Carcinogenicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Reproductive toxicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	Specific target organ toxicity - repeated exposure Category 2
Additional information	Based on the concentration of Hydroxybenzene in the solution.
Aspiration hazard	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Potential adverse human health effects and	Some components in this material are extremely destructive
symptoms:	to tissue of the mucous membranes and upper respiratory
	tract, eyes, and skin., spasm, inflammation and edema of the
	larynx, spasm, inflammation and edema of the bronchi,
	pneumonitis, pulmonary edema, burning sensation, Cough,
	wheezing, laryngitis, Shortness of breath, Headache,
	Nausea, Vomiting, Circulatory collapse, tachypnea,
	paralysis, Convulsions, Coma., necrosis of mouth and G.I.
	Tract, Jaundice, respiratory failure, cardiac arrest.

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SECTION 12: Ecological information

12.1 Toxicity

Hydroxybenzene	
Ecology - Water	Harmful to aquatic life with long lasting effects. Avoid contact
	of substance/mixture to environment.
LC50 – Leuciscus idus (Golden orfe) 48hr	14-25 mg/l
LC50 - Carassius auratus (goldfish) 96hr	36.1-68.8 mg/l
EC50 - Daphnia magna (Water flea) 48hr	56 mg/l
EC50 - Chlorella vulgaris (Fresh water algae) 96hr	370 mg/l
Guanidinium rhodanide	
Ecology - Water	Harmful to aquatic life with long lasting effects. Avoid contact
	of substance/mixture to environment.
EC50 - Daphnia magna (Water flea) 48hr	42.4 mg/l
Ammonium rhodanide	
Ecology - Water	Harmful to aquatic life with long lasting effects. Avoid contact
	of substance/mixture to environment.
LC50 – Oncorhynchus mykiss (rainbow trout) 96hr	65 mg/l
EC50 - Daphnia magna (Water flea) 48hr	3.56 mg/l
(OECD Test Guideline 202)	
EC50 - Selenastrum capricornutum (green algae) 72hr	116 mg/l
(OECD Test Guideline 201)	
Glycerol	
Ecology - Water	Not Classified
LC50 – Fish (Salmo gairdneri) 96hr	54,000 mg/l
LC50 - Bacteria, activated sludge	> 1,000 mg/l
EC50 – Daphnia (daphnia magna, locomotor effect)	> 10,000 mg/l
24hr	

Environmental hazards must not be labelled with P phrases until 125 mL or 125 g (EU 1272/2008 Annex I - 1.5.2).

12.2 Persistence and degradability

Hydroxybenzene	
Biodegradation	Readily biodegradable
Guanidinium rhodanide	
Biodegradation	No data available
Ammonium rhodanide	
Biodegradation	No data available
Glycerol	
Biodegradation	Readily biodegradable

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12.3 Bioaccumulative potential

Hydroxybenzene		
Bioconcentration factor (BCF REACH)	17.5	
Log Pow	1.46	
Guanidinium rhodanide		
Bioconcentration factor (BCF REACH)	No additional information available	
Log Pow	No data available	
Ammonium rhodanide		
Bioconcentration factor (BCF REACH)	No additional information available	
Log Pow	-2.287	
Glycerol		
Bioconcentration factor (BCF REACH)	No additional information available	
Log Pow	-1.76	

12.4 Mobility in soil

Hydroxybenzene	
Ecology - Soil	No data available
Guanidinium rhodanide	
Ecology - Soil	No data available
Ammonium rhodanide	
Ecology - Soil	No data available
Glycerol	
Ecology - Soil	Miscible with water.

12.5 Results of PBT and vPvB assessment

Hydroxybenzene
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Guanidinium rhodanide
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Ammonium rhodanide
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Glycerol
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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12.6 Other adverse effects

Hydroxybenzene
Toxic to aquatic life with long lasting effects.
Guanidinium rhodanide
Harmful to aquatic life with long lasting effects.
Ammonium rhodanide
Toxic to aquatic life.
Glycerol
No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

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

14.1 UN number

UN-No. (ADR)	2821	
UN-No. (IMDG)	2821	
UN-No. (IATA)	2821	
UN-No. (ADN)	2821	
UN-No. (RID)	2821	

14.2 UN proper shipping name

Proper Shipping Name	PHENOL SOLUTION
Proper Shipping Name (IMDG)	PHENOL SOLUTION
Proper Shipping Name (IATA)	PHENOL SOLUTION
Proper Shipping Name (ADN)	PHENOL SOLUTION
Proper Shipping Name (RID)	PHENOL SOLUTION

14.3 Transport hazard class(es)

Transport hazard class(es) (ADR)	6
Transport hazard class(es) (IMDG)	6
Transport hazard class(es) (IATA)	6
Transport hazard class(es) (ADN)	6
Transport hazard class(es) (RID)	6

14.4 Packing group

Packing group		
Packing group (IMDG)	II	
Packing group (IATA)	II	
Packing group (ADN)	II	
Packing group (RID)	l II	

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14.5 Environmental hazards

Dangerous for the environment	Yes
Marine pollutant	Yes
Other information	No supplementary information available

14.6 Special precautions for user

Overland transport	Not regulated
Transport by sea	Not regulated
Air transport	Not regulated
Inland waterway transport	Not regulated
Rail transport	Not regulated

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list ≥ 0,1 % / SCL

Contains no REACH Annex XIV substances

15.2 Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other Information

16.1 Full text of H, EUH and P statements

H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H314	Causes severe skin burns and eye damage.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
EUH032	Contact with acids liberates very toxic gas.
P201	Obtain special instructions before use.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301, P330, P331 & P310	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/ physician.
P303, P361 & P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304, P340 & P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305, P351 & P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

16.2 Training Advice

Regular safety training

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16.3 Abbreviations and acronyms

ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route	
ATE	Acute Toxicity Estimate	
CAS	Chemical Abstracts Service number	
CLP	Classification, Labeling and Packaging	
DNEL	Derived No effect Limit	
EC	European Community	
EC50	Effective Concentration 50%	
EN	European Norm	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IBC	Intermediate Bulk Container	
IMDG	International Maritime Dangerous Goods Code	
IMO	International Maritime Organisation	
LC50	Lethal Concentration 50%	
LD50	Lethal Dose 50%	
MAC	Maximal Allowed Concentration	
O/W	Oil-in-Water (chemistry)	
OECD	Organisation for Economic Co-operation and Development	
PBT	Persistent, bioaccumulative and toxic	
PMcc	Pensky-Martens Closed Cup test	
PNEC	Predicted no effect concentration	
REACH	Registration, Evaluation and Authorisation of CHemicals	
RID	Règlement concernant le transport international ferroviaire de marchandises	
STEL	Short Term Exposure Limit	
TWA	Time Weighted Average	
UNXXXX	Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	
vPvB	Very persistent and very bioaccumulative	

16.4 Recommended Restriction on Use

Only for professional user working under controlled conditions.

Consider employee restrictions for young people (e.g. 94/33/EC)

Consider employee restrictions for pregnant women and nursing women (e.g. 92/85/EEC)

16.5 Further Information

Bioline Reagents Ltd, part of Meridian Bioscience, provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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16.6 Sources of Key Data

UK – Control of Substances Hazardous to Health Regulations 2002 (as amended). Health and Safety at Work etc. Act 1974 (as amended). Guidance Workplace Exposure Limits EH40.

EU – REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress. Legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC TRGS 900, German engineering rules governing limits in air at work, updated February 2015 SUVA .CH, Limits in air at work 2009, revised on 01.2009. KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)., updated October 2011

Republic of China - 职业病防治法

USA – Occupational Safety and Health Administration (OSHA) Occupational Exposure Limits - Table Z-1 Limits for Air Contaminants. The American Conference of Governmental Industrial Hygienists (ACGIH).

Australia - Work Health and Safety (WHS) Act and the WHS Regulations.

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