

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Phenol Red Liquid

Revision date 08-17-2022 Revision Number 2

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

1.1. Product identifier

Product Code(s) PL30PhenRed, PL65PhenRed

Product Name Phenol Red Liquid

Unique Formula Identifier (UFI) SXXN-0AGK-T422-9UFC

Pure substance/mixture Contains Isopropyl alcohol Mixture

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

Recommended use Reagent for water analysis

Uses advised against Others

1.3. Details of the supplier of the safety data sheet

Manufacturer

Water-I.D. GmbH Daimlerstr. 20

76344 Eggenstein, Germany

Tel.: +49 (0) 721 78 20 29 0, Fax: +49 (0) 721 78 20 29 11

Website: www.water-id.com

EHS / Compliance: lab@water-id.com

1.4. Emergency telephone number

Emergency Telephone Poison Control Centre Munich

Tel.: +49 (0) 89 19 24 0

Germany

24 hours service

Languages: German, English

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Regulation (EC) No 1272/2008	
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity — single exposure	Category 3 - (H336)
Category 3 Narcotic effects	
Flammable liquids	Category 2 - (H225)

2.2. Label elements

Contains Isopropyl alcohol



Signal word Danger

Hazard statements

H225 - Highly flammable liquid and vapour

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

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

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear eye protection/ face protection

P312 - Call a POISON CENTER or doctor if you feel unwell

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

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

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nam	e Weight-%	REACH registration	EC No	Classification	Specific	M-Factor	M-Factor
		number		according to	concentration		(long-term)
				Regulation (EC) No.	limit (SCL)		
				1272/2008 [CLP]			
Isopropyl alcoh	ol 30-50	No data available	200-661-7	Eye Irrit. 2 (H319)			
67-63-0				STOT SE 3 (H336)			
				Flam. Liq. 2 (H225)			

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
	mg/kg	mg/kg	hour - dust/mist - mg/L	hour - vapour - mg/L	hour - gas - ppm
Isopropyl alcohol 67-63-0	1870	4059		30.1002	

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

Eye contactRinse 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. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

doctor.

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a doctor.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapour

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting.

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

Note to doctorsTreat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required. Evacuate

personnel to safe areas. Avoid contact with skin, eyes or clothing.

Other information Refer to protective measures listed in Sections 7 and 8.

PL30PHENRED - Phenol Red Liquid

Revision date 08-17-2022

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautionsSee Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Avoid breathing vapours or mists. In case of insufficient ventilation, wear

suitable respiratory equipment.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Isopropyl alcohol	-	TWA: 200 ppm	TWA: 200 ppm	STEL: 1225.0	TWA: 400 ppm
67-63-0		TWA: 500 mg/m ³	TWA: 500 mg/m ³	mg/m³	TWA: 999 mg/m ³
		STEL 800 ppm	STEL: 400 ppm	TWA: 980.0 mg/m ³	STEL: 500 ppm
		STEL 2000 mg/m ³	STEL: 1000 mg/m ³		STEL: 1250 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Isopropyl alcohol	-	TWA: 500 mg/m ³	TWA: 200 ppm	TWA: 150 ppm	TWA: 200 ppm
67-63-0		Ceiling: 1000 mg/m ³	TWA: 490 mg/m ³	TWA: 350 mg/m ³	TWA: 500 mg/m ³
		*		STEL: 250 ppm	STEL: 250 ppm
				STEL: 600 mg/m ³	STEL: 620 mg/m ³
Chemical name	France	Germany	Germany MAK	Greece	Hungary
Isopropyl alcohol	STEL: 400 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA: 400 ppm	TWA: 500 mg/m ³
67-63-0	STEL: 980 mg/m ³	TWA: 500 mg/m ³	TWA: 500 mg/m ³	TWA: 980 mg/m ³	STEL: 1000 mg/m ³
			Peak: 400 ppm	STEL: 500 ppm	*
			Peak: 1000 mg/m ³	STEL: 1225 mg/m ³	

01		In a law al	14 - 1	It-It-DEI	1 -4::-	1:0
Chemical name		Ireland	Italy	Italy REL	Latvia	Lithuania
Isopropyl alcohol	TW	A: 200 ppm	-	TWA: 200 ppm	TWA: 350 mg/m ³	TWA: 150 ppm
67-63-0	STE	L: 400 ppm		TWA: 492 mg/m ³	STEL: 600 mg/m	TWA: 350 mg/m ³
		Sk*		STEL: 400 ppm		STEL: 250 ppm
				STEL: 983 mg/m ³		STEL: 600 mg/m ³
Chemical name	Lu	xembourg	Malta	Netherlands	Norway	Poland
Isopropyl alcohol		-	-	-	STEL: 150 ppm	STEL: 1200 mg/m ³
67-63-0					STEL: 306.25	TWA: 900 mg/m ³
					mg/m³	
Chemical name		Portugal	Romania	Slovakia	Slovenia	Spain
Isopropyl alcohol	TW	A: 200 ppm	TWA: 81 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm
67-63-0	STE	L: 400 ppm	TWA: 200 mg/m ³	TWA: 500 mg/m ³	TWA: 500 mg/m ³	TWA: 500 mg/m ³
			STEL: 203 ppm	Ceiling: 1000 mg/m ³		
			STEL: 500 mg/m ³		STEL: STEL mg/n	³ STEL: 1000 mg/m ³
Chemical name		Sı	veden	Switzerland	L	nited Kingdom
Isopropyl alcohol	·	NGV:	150 ppm	TWA: 200 ppm	1	WA: 400 ppm
67-63-0		NGV: 3	350 mg/m ³	TWA: 500 mg/m	1 ³ T	VA: 999 mg/m ³
		Vägledande	KGV: 250 ppm	STEL: 400 ppm	า ร	TEL: 500 ppm
		Vägledande	KGV: 600 mg/m ³	STEL: 1000 mg/r	m ³ ST	EL: 1250 mg/m ³

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulg	garia	Croatia		Czech Republic
Isopropyl alcohol	-	-		-	50 mg/L - blo	od	-
67-63-0					(Acetone) - at		
					end of the work	-	
					50 mg/L - uri		
					(Acetone) - at		
					end of the work	shift	_
Chemical name	Denmark	Finland	Fra	nce	Germany		Germany
Isopropyl alcohol	-	-		•	25 mg/L (who		25 mg/L (whole
67-63-0						e end	blood - Acetone end
					of shift)		of shift)
					25 mg/L (urin		25 mg/L (urine -
					Acetone end	OT	Acetone end of
					shift)	/ a .a al	shift)
					25 mg/L - BAT		
					of exposure or of shift) urin		
					25 mg/L - BAT		
					of exposure or		
					of shift) bloc		
Chemical name	Hungary	Irelan	d		Italy		Italy REL
Isopropyl alcohol	-	40 mg/L (urine	- Acetone		-	40 m	g/L - urine (Acetone)
67-63-0		end of shift a					nd of shift at end of
		workwe	ek)				workweek
Chemical name	Latvia	Luxembo	ourg		omania		Slovakia
Isopropyl alcohol	-	-		50 mg/L -	urine (Acetone)		-
67-63-0				- er	nd of shift		
Chemical name	Slovenia	Spair		Sw	itzerland		United Kingdom
Isopropyl alcohol	25 mg/L - blood	40 mg/L (urine			urine - Acetone		-
67-63-0	(Acetone) - at the end of	end of work	(week)		d of shift)		
	the work shift				(whole blood -		
	25 mg/L - urine (Acetone)			Acetone	e end of shift)		
	- at the end of the work						
	shift						

Derived No Effect Level (DNEL) No information available. Predicted No Effect Concentration No information available. (PNEC)

8.2. Exposure controls

Personal protective equipment

Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields.

Hand protection Wear suitable gloves.

Skin and body protectionWear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Colour red

Odour Pungent. Aromatic.
Odour threshold Pungent Aromatic.
No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point No data available None known Autoignition temperature No data available None known Decomposition temperature None known

None known None known

pH No data available None known
pH (as aqueous solution) No data available No information available

Kinematic viscosity No data available None known No data available Dynamic viscosity None known No data available None known Water solubility Solubility(ies) No data available None known No data available None known **Partition coefficient** Vapour pressure No data available None known No data available Relative density None known

Bulk density
No data available
No data available
No data available

Relative vapour density No data available None known

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

9.2. Other information

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materialsNone known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. May cause drowsiness or dizziness.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. May cause irritation.

Prolonged contact may cause redness and irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may

cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Numerical measures of toxicity

Acute toxicity

PL30PHENRED - Phenol Red Liquid

Red Liquid Revision date 08-17-2022

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 4,301.80 mg/kg
ATEmix (dermal) 9,337.50 mg/kg
ATEmix (inhalation-vapour) 69.20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl alcohol	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	> 10000 ppm (Rat) 6 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure May cause drowsiness or dizziness.

STOT - repeated exposureNo information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicityContains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	

PL30PHENRED - Phenol Red Liquid

Revision date 08-17-2022

Isopropyl alcohol	EC50: >1000mg/L (72h,	LC50: =11130mg/L (96h,	-	EC50: =13299mg/L (48h,
	Desmodesmus	Pimephales promelas)		Daphnia magna)
	subspicatus)	LC50: =9640mg/L (96h,		
	EC50: >1000mg/L (96h,	Pimephales promelas)		
	Desmodesmus	LC50: >1400000µg/L		
	subspicatus)	(96h, Lepomis		
	•	macrochirus)		

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient			
Isopropyl alcohol	0.05			

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Isopropyl alcohol	The substance is not PBT / vPvB PBT assessment does
	not apply

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number UN1219 14.2 UN proper shipping name Isopropanol

14.3 Transport hazard class(es) 14.4 Packing group

Ш UN1219, Isopropanol, 3, II Description Not applicable

3

14.5 Environmental hazards

14.6 Special precautions for user

Special Provisions A180

ERG Code

IMDG

14.1 UN number or ID number 14.2 UN proper shipping nameUN1219
Isopropanol

14.3 Transport hazard class(es) 3 14.4 Packing group ||

Description UN1219, Isopropanol, 3, II

14.5 Marine pollutant NF

14.6 Special precautions for user

Special Provisions None

EmS-No F-E, S-D No information available No information available

3L

14.7 Maritime transport in bulk according to IMO instruments

<u>RID</u>

14.1 UN number or ID number UN1219 **14.2 UN proper shipping name** Usopropanol

14.3 Transport hazard class(es)14.4 Packing group

Description UN1219, Isopropanol, 3, II

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions 601 Classification code F1

ADR

14.1 UN number or ID number UN1219 **14.2 UN proper shipping name** Usopropanol

14.3 Transport hazard class(es) 3 14.4 Packing group ||

Description UN1219, Isopropanol, 3, II, (D/E)

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions601Classification codeF1Tunnel restriction code(D/E)

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Isopropyl alcohol 67-63-0	RG 84	-

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS Does not comply

IECSCCompliesKECLCompliesPICCSCompliesAICSDoes not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method

Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date

08-17-2022

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet