

Safety Data Sheet

Date of issue: 11/19/2013

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 03/28/2017

Supersedes: 11/19/2013

Version: 1.1

SECTION 4 - Heart Street in a	
SECTION 1: Identification	
1.1. Identification	
Product form	: Mixtures
Product name	: Phenol, 5% w/v
Product code	: LC18195
1.2. Relevant identified uses of th	e substance or mixture and uses advised against
Use of the substance/mixture	: For laboratory and manufacturing use only.
Recommended use	: Laboratory chemicals
Restrictions on use	: Not for food, drug or household use
1.3. Details of the supplier of the	safety data sheet
LabChem Inc Jackson's Pointe Commerce Park Buildin Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com	g 1000, 1010 Jackson's Pointe Court
1.4. Emergency telephone numbe	er de la constante de la const
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887
SECTION 2: Hazard(s) identific	ation
2.1. Classification of the substance	
GHS-US classification	
Germ cell mutagenicity Category 2 Specific target organ toxicity (repeated ex Hazardous to the aquatic environment - A Hazardous to the aquatic environment - C Full text of H statements : see section 16	Acute Hazard Category 3 H402
2.2. Label elements	
GHS-US labeling	
GHS-US labeling Hazard pictograms (GHS-US)	:
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: Danger
	 Danger H314 - Causes severe skin burns and eye damage H341 - Suspected of causing genetic defects H373 - May cause damage to organs (liver, kidneys) through prolonged or repeated exposure (oral, Inhalation, Dermal) H412 - Harmful to aquatic life with long lasting effects
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 Danger H314 - Causes severe skin burns and eye damage H341 - Suspected of causing genetic defects H373 - May cause damage to organs (liver, kidneys) through prolonged or repeated exposure (oral, Inhalation, Dermal)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

If inhaled: Remove person to fresh air and keep comfortable for breathing

2.3. Other hazards

Other hazards not contributing to the : None. classification

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

- Not applicable
- 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	95	Not classified
Phenol	(CAS No) 108-95-2	5	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1B, H314 Muta. 2, H341 STOT RE 2, H373 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

Full text of hazard classes and H-statements : see section 16

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).	
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.	
First-aid measures after skin contact	 Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. 	
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.	
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.	
4.2. Most important symptoms and effe	cts, both acute and delayed	
Symptoms/injuries	: Causes severe skin burns and eye damage. Suspected of causing genetic defects. Causes damage to organs (liver, kidneys) (Dermal).	
Symptoms/injuries after inhalation	: Coughing. Headache. Nausea.	
Symptoms/injuries after skin contact	: Burns.	
Symptoms/injuries after eye contact	: Causes serious eye damage.	
Symptoms/injuries after ingestion	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.	
4.3. Indication of any immediate medical attention and special treatment needed		
Obtain medical assistance.		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	

5.2.	Special hazards arising from the substance or mixture	
Reactivi	ty	: Thermal decomposition generates : Corrosive vapors.
5.3.	Advice for firefighters	
Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting chemical fire. Prevent fire-fighting water from entering environment.		: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting		: Do not enter fire area without proper protective equipment, including respiratory protection.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Protective equipment : Gloves. Safety glasses. Combined gas/dust mask with filter type B/P3.		
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Equip cleanup crew with proper protection.	
Emergency procedures	: Ventilate area.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters. No	tify authorities if liquid enters sewers or public waters. Avoid release to the environment.	
6.3. Methods and material for contain	ment and cleaning up	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.	
6.4. Reference to other sections		
See Heading 8. Exposure controls and person	al protection.	
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, spray. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.	
Hygiene measures	: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use. Protect from sunlight. Store in a well-ventilated place.	
Incompatible products	: Strong oxidizers. Strong reducing agents. Strong bases.	
Incompatible materials	: Sources of ignition. Direct sunlight.	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Phenol (108-95-2)		
ACGIH	ACGIH TWA (mg/m ³)	19 mg/m³
ACGIH	ACGIH TWA (ppm)	5 ppm (Phenol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
OSHA	OSHA PEL (TWA) (mg/m ³)	19 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	5 ppm
IDLH	US IDLH (ppm)	250 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	19 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	5 ppm
NIOSH	NIOSH REL (ceiling) (mg/m ³)	60 mg/m³ 15 min.
NIOSH	NIOSH REL (ceiling) (ppm)	15.6 ppm 15 min.
Water (7732-18-5)		
Not applicable		

8.2. Exposure controls	
Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate

vicinity of any potential exposure. Provide adequate general and local exhaust ventilation. Material should be handled in a laboratory hood whenever possible.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

- Personal protective equipment
 : Safety glasses. Gloves. Protective clothing. High gas/vapor concentration: gas mask with filter type B.

 Hand protection
 : Wear protective gloves.

 Eye protection
 : Wear protective gloves.

 Skin and body protection
 : Wear suitable protective clothing.

 Respiratory protection
 : Wear appropriate mask. Gas mask with filter type B.

 Other information
 : Do not eat, drink or smoke during use.
- SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical an	a chemical properties
Physical state	: Liquid
Color	: Colorless
Odor	: Sweet
Odor threshold	: No data available
рН	: 6
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: 0.35 mm Hg 25°C
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1 g/ml
Molecular mass	: 94.1 g/mol
Solubility	: Soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: 1.8 - 8.6 vol %
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2.	Other in	formation
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No additional information available

SECT	SECTION 10: Stability and reactivity		
10.1.	Reactivity		
Therma	Thermal decomposition generates : Corrosive vapors.		
10.2.	Chemical stability		
Stable u	under normal conditions.		
10.3.	Possibility of hazardous reactions		
Not esta	ablished.		
10.4.	Conditions to avoid		

Direct sunlight. Extremely high or low temperatures.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.5. Incompatible materials

Strong reducing agents. Strong oxidizers. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapors.

SECTION 11: Toxicological information 11.1. Information on toxicological effects

Likely routes of exposure	: Inhalation; Skin and eye contact
cute toxicity : Not classified	
Phenol, 5% w/v	
LD50 oral rat	6340 mg/kg
LD50 dermal rat	10500 mg/kg
LC50 inhalation rat (mg/l)	6.32 mg/l/4h
ATE US (oral)	6340.000 mg/kg body weight
ATE US (dermal)	10500.000 mg/kg body weight
ATE US (vapors)	6.320 mg/l/4h
ATE US (dust, mist)	6.320 mg/l/4h
Phenol (108-95-2)	
LD50 oral rat	650 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rat	660 mg/kg (Rat; Experimental value; Equivalent or similar to OECD 402)
LD50 dermal rabbit	850 - 1400 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	0.32 mg/l/4h (Rat; Literature study)
ATE US (oral)	650.000 mg/kg body weight
ATE US (dermal)	660.000 mg/kg body weight
ATE US (vapors)	0.320 mg/l/4h
ATE US (dust, mist)	0.320 mg/l/4h
Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
ATE US (oral)	90000.000 mg/kg body weight
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 6
Serious eye damage/irritation	: Causes serious eye damage.
	pH: 6
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Not classified
Phenol (108-95-2)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: May cause damage to organs (liver, kidneys) through prolonged or repeated exposure (oral, Inhalation, Dermal).
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: Coughing. Headache. Nausea.
Symptoms/injuries after skin contact	: Burns.
Symptoms/injuries after eye contact	: Causes serious eye damage.
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Safety Data Sheet

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12.1. Toxicity Ecology - water : Hamful to aquatic life. Hamful to aquatic life with long lasting effects. Phenol. 5% w/v	according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations		
Ecology - water : Harmful to aquatic life. Harmful to aquatic life with long lasting effects. Phenol. 5% wiV Ecology - with a quatic organisms 1 0.04 mg1 (4 days; Rana sp; LC50) ECSO Baphing 2 6.6 mg1 (ECSO; 4.6 h; Daphnia magne, Static system) Ecology - with a quatic organisms 1 0.04 mg1 (4 days; Rana sp; LC50) ECSO Baphing 2 6.6 mg1 (ECSO; 4.6 h; Daphnia magne, Static system) Ecology - with a quatic organisms 1 0.04 mg1 (4 days; Rana sp; LC50) ECSO Baphing 2 6.6 mg1 (ECSO; 4.6 h; Daphnia magne, Static system) Ecology - water adgradability May cause long-term adverse effects in the environment. Phenol (108-96-2) Persistence and degradability May cause long-term adverse effects in the environment. Phenol (108-96-20) Cause organism 1 6.6 g o/g substance Ecology organism 1 Biochemical oxygen demand (EOD) 2.28 g o/g substance Ecology organism 1 Ecology substance BOD (% of ThOD) 0.71 Water (722-18-5) Ecology advectance Ecology organism 1 Bioaccumulative potential Not established. Ecology organism 1 Ecology organism 1 Phenol (108-65-2) Ecology organism 1 Ecology organism 1 Ecology organicana diagon 1 Bioa	SECTION 12: Ecological information		
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Phenol (108-95-2) Log Pow 1.47 (Experimental value; Equivalent or similar to OECD 117; 30 °C) Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).	Phenol, 5% w/v		
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Bioaccumulative potential Low potential for bioaccumulation (BCF < 500). Water (7732-18-5) Not established. Bioaccumulative potential Not established. 12.4. Mobility in soil Phenol (108-95-2) Output Surface tension 0.0713 N/m (20 °C) 12.5. Other adverse effects Effect on the global warming : No known effects from this product. GWPmix comment : No known effects from this product. Other information : Avoid release to the environment. SECTION 13: Disposal considerations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Bioaccumulation : Avoid release to the environment.	Phenol (108-95-2)		
Water (7732-18-5) Bioaccumulative potential Not established. 12.4. Mobility in soil Phenol (108-95-2)	Log Pow	1.47 (Experimental value; Equivalent or similar to OECD 117; 30 °C)	
Bioaccumulative potential Not established. 12.4. Mobility in soil Phenol (108-95-2) 0.0713 N/m (20 °C) Surface tension 0.0713 N/m (20 °C) 12.5. Other adverse effects Effect on the global warming : No known effects from this product. GWPmix comment : No known effects from this product. Other information : Avoid release to the environment. SECTION 13: Disposal considerations 13.1. Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Ecology - waste materials : Avoid release to the environment.	Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
12.4. Mobility in soil Phenol (108-95-2) 0.0713 N/m (20 °C) Surface tension 0.0713 N/m (20 °C) 12.5. Other adverse effects Effect on the global warming : No known effects from this product. GWPmix comment : No known effects from this product. Other information : Avoid release to the environment. SECTION 13: Disposal considerations 13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Ecology - waste materials : Avoid release to the environment.	Water (7732-18-5)		
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Effect on the global warming : No known effects from this product. GWPmix comment : No known effects from this product. Other information : Avoid release to the environment. SECTION 13: Disposal considerations : Avoid release to the environment. 13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Ecology - waste materials : Avoid release to the environment.		·	
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SECTION 13: Disposal considerations 13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Ecology - waste materials : Avoid release to the environment.	GWPmix comment	: No known effects from this product.	
13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Ecology - waste materials : Avoid release to the environment.	Other information	: Avoid release to the environment.	
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Ecology - waste materials : Avoid release to the environment.	SECTION 13: Disposal considerations		
Ecology - waste materials contents/container to comply with local, state and federal regulations. Ecology - waste materials : Avoid release to the environment.	13.1. Waste treatment methods		
Ecology - waste materials : Avoid release to the environment.	Waste disposal recommendations		
SECTION 14: Transport information	Ecology - waste materials		

Department of Transportation (DOT)

In accordance with DOT Not regulated

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information	
15.1. US Federal regulations	
Phenol, 5% w/v	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Phenol	CAS No 108-95-2	5%			
Phenol (108-95-2)					
RQ (Reportable quantity, section 304 of EPA's 1000 lb List of Lists)					
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard				
SARA Section 313 - Emission Reporting	1 %				

15.2. International regulations CANADA Phenol, 5% w/v WHMIS Classification Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class E - Corrosive Material Phenol (108-95-2) Listed on the Canadian DSL (Domestic Substances List) WHMIS Classification Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class E - Corrosive Material Water (7732-18-5) WHMIS Classification Uncontrolled product according to WHMIS classification criteria **EU-Regulations**

No additional information available

National regulations

Phenol (108-95-2)

Listed on the Canadian IDL (Ingredient Disclosure List)	

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other info	ormation	
Revision date	: 03/28/2017	
Other information	: None.	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases: see section 16	X
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H330	Fatal if inhaled
H341	Suspected of causing genetic defects
H373	May cause damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
HMIS III Rating	·
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: J
	J - Splash goggles, Gloves, Synthetic apron, Dust & vapor respirator
SDS US LabChem	

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.