

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

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: DCB101 Phenolphthalein Reagent
Product code	: DCB101
1.2. Relevant identified uses of the subs	stance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemical
1.3. Details of the supplier of the safety	data sheet
SIRCHIE Finger Print Laboratories 100 Hunter Place Youngsville, NC 27596 - USA T 919-554-2244; 800-356-7311 - F 919-554-226 http://www.sirchie.com	6; 800-899-8181
1.4. Emergency telephone number	
Emergency number	: 1.800.424.9300
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or n	nixture
GHS-US classification	
Skin corrosion/irritation Category 1A H314	
Carcinogenicity Category 1B H350	
Reproductive toxicity Category 1A H360	
Full text of H statements : see section 16	
2.2. Label elements	
GHS-US labeling Hazard pictograms (GHS-US)	: GHS05 GHS08
Signal word (GHS-US)	: Danger
Contains	: phenolphthalein; sodium hydroxide
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage H350 - May cause cancer H360 - May damage fertility or the unborn child
Precautionary statements (GHS-US)	<ul> <li>P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P260 - Do not breathe fume, vapors P264 - Wash all exposed skin thoroughly after handling P280 - Wear eye protection, protective gloves P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P308+P313 - If exposed or concerned: Get medical advice/attention</li> <li>P310 - Immediately call a poison center/doctor/</li> <li>P321 - Specific treatment (see information on this label)</li> <li>P363 - Wash contaminated clothing before reuse</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to local/regional/national/international regulations</li> </ul>
2.3. Other hazards	
Other hazards not contributing to the	: None under normal conditions.
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### classification

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/Information on ingredients**

3.1. Substance

# Not applicable **3.2.** Mixture

Name	Product identifier	%	GHS-US classification
AQUA	(CAS No) 7732-18-5	> 81	Not classified
sodium hydroxide	(CAS No) 1310-73-2	> 16	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314
phenolphthalein	(CAS No) 77-09-8	< 1	Muta. 2, H341 Carc. 1B, H350 Repr. 1A, H360
zinc, powder or dust, water-reactive	(CAS No) 7440-66-6	< 1	Not classified

### Full text of H-phrases: 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	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any immediate medical	attention and special treatment needed
No additional information available	
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 sub	stance or mixture
Reactivity	: No reactivity hazard other than the effects described in sub-sections below.
5.3. Advice for firefighters	
Firefighting instructions	: 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.
SECTION 6: Accidental release meas	
6.1. Personal precautions, protective equ	
6.1.1. For non-emergency personnel	
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. Notify authorities if liquid enters sewers or public waters.

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6.3.	Methods and material for containment and cleaning up		
Method	s 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 He	ading 8. Exposure controls and personal	protection.	
SECT	ION 7: Handling and storage		
7.1.	Precautions for safe handling		
Precaut	tions 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.	
7.2.	Conditions for safe storage, includi	ng any incompatibilities	
Storage	conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.	
Incomp	atible products	: Strong bases. Strong acids.	
Incomp	atible materials	: Sources of ignition. Direct sunlight.	

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

phenolphthalein (77-09-8)			
Not applicable			
sodium hydroxide (1310-73-	sodium hydroxide (1310-73-2)		
ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (Sodium hydroxide; USA; Momentary value; TLV - Adopted Value)	
AQUA (7732-18-5)			
Not applicable			
zinc, powder or dust, water-reactive (7440-66-6)			
Not applicable			

### 8.2. Exposure controls

Personal protective equipment

: Avoid all unnecessary exposure. Gas mask. Gloves. Safety glasses.



Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.
SECTION 9: Physical and che	emical properties

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Liquid.	
Color	: Colorless	
Odor	: odorless	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	

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Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Solubility	<ul> <li>Soluble in water.</li> <li>Water: Solubility in water of component(s) of the mixture :</li> <li>phenolphthalein: 0.000336 g/100ml</li> <li>sodium hydroxide: 42 g/100ml</li> </ul>
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

No reactivity hazard other than the effects described in sub-sections below.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

11.1. Information on toxicological effects

#### Acute toxicity

: Not classified

sodium hydroxide (1310-73-2)		
ATE US (oral)	500.000 mg/kg body weight	
ATE US (dermal)	1350.000 mg/kg body weight	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
	Based on available data, the classification criteria are not met	
Carcinogenicity	: May cause cancer.	
phenolphthalein (77-09-8)		
IARC group	2B - Possibly carcinogenic to humans	
Reproductive toxicity	: May damage fertility or the unborn child.	
	Based on available data, the classification criteria are not met	
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Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.

symptoms **SECTION 12: Ecological information** 12.1. Toxicity phenolphthalein (77-09-8) EC50 Daphnia 1 > 100 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value) Threshold limit algae 1 8.9 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus;

	LC50 fish 1	45.4 mg/l (LC50; Other; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental value)
sodium hydroxide (1310-73-2)		45.4 mol/ // OFO: Other OC h. Colmon printerii: Otatio custom: Erech unter: Europimentel
	······································	Static system; Fresh water; Experimental value)

Zinc, powder of dust, water-reactive (1440-00-0)	
LC50 fish 1	2.61 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.068 - 0.56 mg/l (EC50; 48 h)
Threshold limit algae 1	0.0509 mg/l (EC50)

#### 12.2. Persistence and degradability

DCB101 Phenolphthalein Reagent		
Persistence and degradability	Not established.	
phenolphthalein (77-09-8)		
Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the substance available. Photodegradation in the air.	
sodium hydroxide (1310-73-2)		
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
zinc, powder or dust, water-reactive (7440-66-6)		
Persistence and degradability	Biodegradability in soil: not applicable. Adsorbs into the soil.	

Persistence and degradability	Biodegradability in soil: not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

12.3. Bioaccumulative potential			
DCB101 Phenolphthalein Reagent			
Bioaccumulative potential	Not established.		
phenolphthalein (77-09-8)			
Log Pow	2.41 (Experimental value)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
sodium hydroxide (1310-73-2)			
Bioaccumulative potential	No bioaccumulation data available.		
zinc, powder or dust, water-reactive (7440-66-6)			
BCF fish 1	3000 (BCF)		
BCF other aquatic organisms 1	15000 (BCF)		

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#### 12.4. Mobility in soil

No additional information available

12.5. Other adverse effects	
Effect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT	
	LIN1824 Sodium hydroxido solution 8 II
Transport document description	: UN1824 Sodium hydroxide solution, 8, II
UN-No.(DOT)	: UN1824
Proper Shipping Name (DOT)	: Sodium hydroxide solution
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive
Packing group (DOT)	: II - Medium Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Special Provisions (49 CFR 172.102)	<ul> <li>B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized</li> <li>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized</li> <li>N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel
DOT Vessel Stowage Other	: 52 - Stow "separated from" acids
Other information	: No supplementary information available.
TDG	
No additional information available	

No additional information available

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### Transport by sea

UN-No. (IMDG)	: 1824
Proper Shipping Name (IMDG)	: SODIUM HYDROXIDE SOLUTION
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 1824
Proper Shipping Name (IATA)	: Sodium hydroxide solution
	. O. Compativos

Class (IATA) Packing group (IATA)

- : 8 Corrosives
- : II Medium Danger

### SECTION 15: Regulatory information

### 15.1. US Federal regulations

### DCB101 Phenolphthalein Reagent

Subject to reporting requirements of United States SARA Section 313 Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### **CANADA**

No additional information available

#### **EU-Regulations**

No additional information available

### National regulations

#### DCB101 Phenolphthalein Reagent

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations		
DCB101 Phenolphthalein Reagent		
U.S California - Proposition 65 - Carcinogens List	Yes	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	

SECTION 16: Other information	
Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Training advice	Normal use of this product shall imply use in accordance with the instructions on the packaging. Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources - heat, open flame, sparks. Avoid incompatible materials. Avoid dust creation and accumulation. Avoid inhalation and ingestion. Avoid contact with eyes. Wash thoroughly after handling.
Other information	: This Safety Data Sheet has been established in accordance with the applicable European Union legislation.

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Full tex	t of H-phrases:		
	H290	May be corrosive to metals	
	H302	Harmful if swallowed	
	H312	Harmful in contact with skin	
	H314	Causes severe skin burns and eye damage	
	H341	Suspected of causing genetic defects	
	H350	May cause cancer	
	H360	May damage fertility or the unborn child	
NFPA I	nealth hazard	2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.	
NFPA f	ïre hazard	1 - Must be preheated before ignition can occur.	
NFPA ı	reactivity	<ul> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>	
HMIS I	II Rating		
Health		: 2 Moderate Hazard - Temporary or minor injury may occur	
Flamm	ability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liqu solids and semi solids having a flash point above 200 F. (Class IIIB)	uids,
Physica	al	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and w react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	ill NOT
Person	al Protection	: G	
		G - Safety glasses, Gloves, Vapor respirator	

SDS US (GHS HazCom 2012)

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.