

SOUTHERN GROUP LABORATORY LIMITED

SAFETY DATA SHEET

SECTION 1.	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
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1.1 Product identifier

Product name Ziehl Neelsen Stain

SGL Product code 35008

This product is a mixture.

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

Identified uses Reagent for laboratory analysis

Uses advised against No information on uses against available.

1.3. Details of the supplier of the safety data sheet

Supplier Southern Group Laboratory,
Cavendish Courtyard, Sallow Road,
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SECTION 2. HAZARDS IDENTIFICATION
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2.1 Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008

Physical hazards

Flammable Liquid (category 3): H226

Health hazards

Carcinogenicity (category 1B): H350

Germ cell mutagenicity (category 2): H341

Skin corrosive (category 1): H314

Environmental hazards

Based on available data, no classification met

For the full text of the H-Statements mentioned see Section 16.

2.2. Label elements

Pictogram



Signal word

Danger

Hazard statements

H226: Flammable liquid and vapour

H350: May cause cancer

H341: Suspected of causing genetic defects

H314: Causes severe skin burns and eye damage

Precautionary statements

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

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

P233: Keep container tightly closed.

P243: Take precautionary measures against static discharge.

P260: Do not breathe dust / fume / gas / mist / vapours / spray.

P264: Wash hands thoroughly after handling.

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+P310: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower. Immediately call a POISON Center or doctor/physician.
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338+P310: IF IN EYES: 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.
 P308+P313: IF exposed or concerned: Get medical advice / attention.
 P363: Wash contaminated clothing before reuse.
 P403 + P235: Store in a well-ventilated place. Keep cool.
 P501: Dispose of contents/container in accordance with national regulations.

2.3. Other hazards None known

SECTION 3.	COMPOSITION/INFORMATION ON INGREDIENTS
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3.1. Mixtures

Name	EC No.	CAS-No.	Concentration	Classification
Ethanol	200-578-6	64-17-5	10%	Flam. Liq. 2; H225 Acute Tox.4 (oral); H302
Fuchsin (basic)	211-189-6	632-99-5	1%	Carc. 1B; H350
Phenol	203-632-7	108-95-2	4.8%	Germ Cell Mut. 2; H341 Acute Tox. 3 (oral); H301 Acute Tox. 3 (dermal); H311 Acute Tox. 3 (inhalation); H331 STOT RE. 2; H373 Skin Corr. 1B; H314

Composition comments The data shown are in accordance with Regulation (EC) No. 1272/2008.

SECTION 4.	FIRST-AID MEASURES
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4.1 Description of first aid measures

- Inhalation** Remove from exposure to fresh air and keep at rest in a position comfortable for breathing. Place unconscious person on their side in recovery position and ensure breathing can take place. In severe cases obtain medical attention.
- Ingestion** Do NOT induce vomiting. Wash out mouth thoroughly with water. Obtain medical attention.
- Skin contact** Wash off thoroughly with water. Remove contaminated clothing. Obtain medical attention.
- Eye Contact** Irrigate thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Obtain medical attention.
- Self Protection of the first aider** Wear gloves (nitrile rubber recommended).

4.2 Most important symptoms and effects, both acute and delayed

After inhalation, irritation of the mucous membranes, coughing and dyspnoea.
After skin contact, danger of skin absorption. Staining occurs.
After ingestion, mucosal irritation.
Systemic effects may include CNS disorders and cardiovascular disorders.
Possible effects on liver and kidneys.

4.3. Indication of any immediate attention and special treatment needed

Notes for doctor No specific recommendations.

SECTION 5.	FIRE – FIGHTING MEASURES
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5.1. Extinguishing media

Suitable extinguishing media Water fog, foam, carbon dioxide (CO₂), dry powder

Unsuitable extinguishing media None known.

Prevent fire fighting media from entering watercourses or ground water.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Flammable liquid and vapour. Toxic fumes may be generated.

5.3. Advice for firefighters

Protective actions during firefighting Cool containers exposed to heat with water spray. Wear self contained breathing apparatus (SCBA).

SECTION 6.	ACCIDENTAL RELEASE MEASURES
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6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective clothing as described in Section 8 of this safety data sheet. Avoid breathing mist, vapours or gas. No smoking, sparks, flames or other sources of ignition. Provide adequate ventilation.

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Collect spillage using suitable non-combustible material. Seal material in closed container avoiding the generation of mist or vapours. Wear personal protective clothing as recommended in Section 8. Cover drains to avoid releasing into environment. Dispose as recommended in Section 13.

6.4. Reference to other sections

Section 8 for protective measures.
Section 13 for disposal considerations.

SECTION 7.	HANDLING AND STORAGE
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7.1 Precautions for safe handling

Wear personal protective clothing. Avoid contact with skin, eyes and clothing. Avoid formation of mists or vapours. Ensure adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Change contaminated clothing. Wash hands after working with material. Take precautions against static discharge.

7.2 Conditions for safe storage, including any incompatibilities

Store according to label requirements. Keep closed.

7.3 Specific end use(s)

Use in laboratories.

SECTION 8.	EXPOSURE CONTROLS/PERSONAL PROTECTION
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8.1 Control parameters

Component	CAS No	Long Term Exposure Limit (8 hr TWA Reference Period)	Short Term Exposure (15 Min Reference Period)	Basis	Comments
Ethanol	64-17-5	1000 ppm 1920 mg/m ³	None specified.	UK. EH40 Workplace Exposure Limits	None.
Phenol	108-95-2	2 ppm 7.8 mg/m ³	4 ppm 16 mg/m ³	UK. EH40 Workplace Exposure Limits	Can be absorbed through the skin. There are concerns that dermal absorption will lead to systemic toxicity.

8.2 Exposure controls

Engineering measures

Avoid inhalation of vapours. Handle in well ventilated area. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Protective equipment



Eye/face protection

Safety goggles (tightly fitting) complying with Standard EN166.

Hand protection

Disposable nitrile rubber gloves complying with EC Directive 89/686/EEC and Standard EN374
Glove thickness of 0.11mm
See manufacturer's recommendations for break through times
Material tested: Not applicable

Other skin and body protection Long sleeved clothing. Wear anti-static protective clothing if there is a risk of ignition from static electricity.

Hygiene measures

Wash hands after use.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9.	PHYSICAL AND CHEMICAL PROPERTIES
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9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Red
Odour	Alcoholic
Odour threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	
Lower explosion limit (VOL-%)	No data available
Upper explosion limit (VOL-%)	No data available
Vapour pressure	No data available
Vapour density	No data available

Relative density	No data available
Solubility(ies)	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

9.2. Other information

None

SECTION 10.	STABILITY AND REACTIVITY
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10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under storage at normal conditions.

10.3 Possibility of hazardous reactions

Oxidising agents.

10.4 Conditions to avoid

Heat, flames and other sources of ignition.

10.5 Incompatible materials

Oxidising agents.

10.6 Hazardous decomposition products

No data available.

SECTION 11.	TOXICOLOGICAL INFORMATION
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11.1 Information on toxicological effects

The acute toxicity data is based on the mixture.

Acute oral toxicity	Classification criteria are not met.
ATE_{mix}	>2000 mg/kg
Method	Calculation
Acute dermal toxicity	Classification criteria are not met.
ATE_{mix}	>2000 mg/kg
Method	Calculation

Acute inhalation toxicity ATE_{mix} (vapour) Method	Classification criteria are not met. >20 mg/l Calculation
Skin corrosion/irritation	Causes severe skin burns and eye damage
Serious eye damage/irritation	Causes severe skin burns and eye damage
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	Suspected of causing genetic defects
Carcinogenicity	May cause cancer
Reproductive toxicity	No data available
STOT single exposure	No data available
STOT repeated exposure	No data available
Aspiration hazard	No data available

11.2 Additional information

After inhalation, irritation of the mucous membranes, coughing and dyspnoea.
After skin contact, danger of skin absorption. Staining occurs.
After ingestion, mucosal irritation.
Systemic effects may include CNS disorders and cardiovascular disorders.
Possible effects on liver and kidneys.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

No information available

12.2 Persistence and degradability

No information available

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

No information available

SECTION 13.	DISPOSAL CONSIDERATIONS
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13.1 Waste treatment methods

Dispose of in accordance with applicable local and national regulations.

SECTION 14.	TRANSPORT INFORMATION
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14.1 UN number

1992

14.2 UN proper shipping name

FLAMMABLE LIQUID, TOXIC, N.O.S. (Ethanol/Phenol)

14.3 Transport hazard class(es)

3 (6.1)

14.4 Packing group

III

14.5 Environmental hazards

No data available

14.6 Special precautions for user

No data available

SECTION 15.	REGULATORY INFORMATION
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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation 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 (as amended).

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16.	OTHER INFORMATION
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16.1 Relevant H- and EUH-phrases (number and full text)

H225: Highly flammable liquid and vapour
H226: Flammable liquid and vapour
H301: Toxic if swallowed
H302: Harmful if swallowed
H311: Toxic in contact with skin
H314: Causes severe skin burns and eye damage
H331: Toxic if inhaled
H341: Suspected of causing genetic defects
H350: May cause cancer
H373: May cause damage to organs

16.2 Additional information

The above information is based on present knowledge, but does not purport to be inclusive and should only be used as a guide. Southern Group Laboratory shall not be held liable for any damage resulting from handling or from contact with the above product.

The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made up material.

16.3 Revision summary

Changes to this issue Updated to format compliant with Regulation (EC) No 1907/2006 (REACH), the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) and Regulation (EC) No 1272/2008 (CLP).

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END OF SAFETY DATA SHEET