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

Product identifier
Hematology Reagent C Eosin Stain / Hematology Reagent C Eosin Stain Concentrate (diluted)

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

Use of the substance/mixture
Use as laboratory reagent.
Methanolic hematology fixative

Details of the supplier of the safety data sheet
Company name: ELITechGroup Inc., (dba Wescor, Inc.)
Street: 370 West 1700 South
Place: Logan, UT 84321 USA
Telephone: +1 (435) 752-6011
Telefax: +1 (435) 752-4127
Responsible Department: QA/RA Department
Street: 370 West 1700 South
Place: Logan, UT 84321 USA
Telephone: +1 (435) 752-6011
Telefax: +1 (435) 752-4127

Emergency telephone number
Info Trac Emergency Response: Contact your distributor or poison control center in your country.
Calls within the USA, phone: 1-800-535-5053
Calls outside the USA, phone: +1 352-323-3500 (call collect)

SECTION 2: Hazards identification

Classification of the substance or mixture
Indications of danger : Toxic
R-phrases:
- Flammable.
- Toxic by inhalation, in contact with skin and if swallowed.
- Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
- May cause sensitization by skin contact.

Label elements

Danger symbols:
- T - Toxic

Hazardous components which must be listed on the label
- methanol
- maleic acid

R phrases
- 10 Flammable.
- 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- 39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
- 43 May cause sensitization by skin contact.

S phrases
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
Hematology Reagent C Eosin Stain / Hematology Reagent C Eosin Stain Concentrate (diluted)

Product code: SS-071C, SS-071C-EU, SS-171C2 (DILUTED)

SECTION 3: Composition/information on ingredients

Hazardous components

<table>
<thead>
<tr>
<th>EC No.</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>200-659-6</td>
<td>methanol</td>
<td>50-65%</td>
</tr>
<tr>
<td>75-93-7</td>
<td>Ethanol (SS-171B2 as diluted only)</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>203-742-5</td>
<td>maleic acid</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>100-16-7</td>
<td>caustic potash, potassium hydroxide</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>1310-58-3</td>
<td>(p-tert-Octylphenoxy) polyethoxyethanol</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>241-409-6</td>
<td>Eosin Y</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>17372-87-1</td>
<td>XI R36</td>
<td></td>
</tr>
</tbody>
</table>

Full text of R- and H-phrases: see section 16.

Further Information

Note: This hazard characteristics refer to the properties of pure ingredients, for the identification of the preparation (product), see Section 2 and 15.

SECTION 4: First aid measures

Description of first aid measures

General information

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

After inhalation

Provide fresh air. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. Immediately get medical attention.

After contact with skin

Remove contaminated clothing immediately and dispose off safely. After contact with skin, wash immediately with: Water and soap. If skin irritation occurs: Get medical advice/attention.
Safety Data Sheet
according to Regulation (EC) No. 1907/2006

Hematology Reagent C Eosin Stain / Hematology Reagent C Eosin Stain Concentrate (diluted)
Product code: SS-071C, SS-071C-EU, SS-171C2 (DILUTED)

After contact with eyes
In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion
Rinse mouth thoroughly with water. Make affected person vomit if conscious. Never give anything by mouth to an unconscious person or a person with cramps. Immediately get medical attention.

Most important symptoms and effects, both acute and delayed
Possible harmful effect(s) on human beings and possible symptom(s): Headache. Drowsiness. Nausea. Vomiting. eye defects.
Ingestion: Toxic: danger of very serious irreversible effects if swallowed. Fatal if swallowed. Inhalation (> 100 ml) If swallowed there is a risk of going blind.
Inhalation: Toxic: danger of very serious irreversible effects through inhalation.
Skin contact: Large-scale skin contact may cause severe poisoning. Has de-greasing effect on the skin. Repeated exposure may cause skin dryness or cracking.

SECTION 5: Firefighting measures

Extinguishing media
- Suitable extinguishing media
  Water spray,
  alcohol resistant foam,
  dry extinguishing powder.
- Extinguishing media which must not be used for safety reasons
  High power water jet.

Special hazards arising from the substance or mixture
- Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2).

Advice for firefighters
- Wear a self-contained breathing apparatus and chemical resistant suit.

Additional information
- Use water spray/stream to protect personnel and to cool endangered containers.
- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
- Remove all sources of ignition. Provide adequate ventilation.
- Wear personal protection equipment. (Refer to section 8)

Environmental precautions
- Do not empty into drains or the aquatic environment.
- Dumping into the environment must be prevented.

Methods and material for containment and cleaning up
- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Treat the assimilated material according to the section on waste disposal.
- Clear contaminated area thoroughly.

Reference to other sections
- See protective measures under point 7 and 8.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling
- Wear suitable protective clothing. (Refer to section 8.)
- Provide for sufficient ventilation and punctiform suction at critical points.
**Safety Data Sheet**

according to Regulation (EC) No. 1907/2006

**Hematology Reagent C Eosin Stain / Hematology Reagent C Eosin Stain Concentrate (diluted)**

**Product code:** SS-071C, SS-071C-EU, SS-171C2 (DILUTED)

---

**Use extractor hood (laboratory).**

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

**Further information on handling**

Flammable vapours can accumulate in steam space of closed systems.

**Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep container tightly closed and in a well-ventilated place. Recommended storage temperature: 15°-25°C

Unsuitable materials for Container: Base metals and alloys

**Advice on storage compatibility**


**Further information on storage conditions**

Keep container tightly closed in a cool, well-ventilated place. Protect against: UV-radiation/sunlight.

Maximum period of storage (time): 18 M

---

**SECTION 8: Exposure controls/personal protection**

**Control parameters**

**Exposure limits (EH40)**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Chemical name</th>
<th>ml/m³</th>
<th>mg/m³</th>
<th>F/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>Ethanol</td>
<td>1000</td>
<td>1920</td>
<td>-</td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td>67-56-1</td>
<td>Methanol</td>
<td>200</td>
<td>266</td>
<td>-</td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td>1310-58-3</td>
<td>Potassium hydroxide</td>
<td>250</td>
<td>333</td>
<td>-</td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

**Exposure controls**

**Occupational exposure controls**

Use extractor hood (laboratory). Provide for sufficient ventilation and punctiform suction at critical points. Additional information: refer to chapter 7. No further action is necessary.

**Protective and hygiene measures**

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Remove contaminated clothing immediately and dispose of safely. Wash contaminated clothing prior to re-use. Used working clothes should not be used outside the work area. Street clothing should be stored separately from work clothing.

**Respiratory protection**

Respiratory protection required in case of:

- exceeding critical value
- insufficient ventilation.
- insufficient absorption.

Suitable respiratory protective equipment: gas filtering equipment (EN 141). Type: AX

**Hand protection**

Pull-over gloves of rubber. DIN EN 374

---

**Revision date:** 2014-09-03

**Page 4 of 10**

---

*DOC-00741-ENB.docx*
Hematology Reagent C Eosin Stain / Hematology Reagent C Eosin Stain Concentrate (diluted)

Suitable material:
(penetration time (maximum wearing period): >= 8 h):
Butyl rubber.

(penetration time (maximum wearing period): >= 4 h):
FKM (fluororubber).

(penetration time (maximum wearing period): >= 1 h):
CR (polychloroprene, Chloroprene rubber).

Before using check leak tightness / impermeability. In case of reutilization, clean gloves before taking off and store in well- aired place.

Eye protection
Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

Skin protection
Suitable protection of the body:

Environmental exposure controls
This material and its container must be disposed of in a safe way.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>blue</td>
</tr>
<tr>
<td>Odour:</td>
<td>Alcohol</td>
</tr>
</tbody>
</table>

Test method
pH-Value: 6,7-6,9

Changes in the physical state
Melting point: <0 °C
Boiling point: >64 °C
Flash point: 25-27 °C
Density: 0,88-0,90 g/cm³
Water solubility: miscible.

SECTION 10: Stability and reactivity

Conditions to avoid
Keep away from heat.
In case of warming: Explosion hazard. Ignition hazard.
In case of shock or pressure: Explosion hazard. Ignition hazard.

Incompatible materials
Oxidizing agents, strong. acid. Slowly corrodes aluminium and zinc under hydrogen evolution.

Hazardous decomposition products
Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2).

SECTION 11: Toxicological information

Information on toxicological effects
### Acute toxicity

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Chemical name</th>
<th>Exposure routes</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>methanol</td>
<td></td>
<td>LD50</td>
<td>&gt;5000 mg/kg</td>
<td>Rat.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>110-16-7</td>
<td>maleic acid</td>
<td></td>
<td>LD50</td>
<td>&gt;15000 mg/kg</td>
<td>Rabbit.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1310-58-3</td>
<td>caustic potash, potassium hydroxide</td>
<td></td>
<td>ACUTE</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9002-93-1</td>
<td>(p-tert-Octylphenoxy) polyethoxyethanol</td>
<td></td>
<td>ACUTE</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17372-87-1</td>
<td>Eosin Y</td>
<td></td>
<td>LD50</td>
<td>708 mg/kg</td>
<td>Rat.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Irritation and corrosivity

- Irritant effect on the eye: slightly irritant but not relevant for classification.
- Irritant effect on the skin: slightly irritant but not relevant for classification.

### Sensitizing effects

Contains: maleic acid: Formaldehyde. May cause sensitization in susceptible people. People who suffer from skin problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.

### Severe effects after repeated or prolonged exposure

- Methanol.: NOAEL: 270 mg/kg

### Carcinogenic/mutagenic/toxic effects for reproduction

- Methanol.: No evidence for: Carcinogenicity
- No evidence for: Developmental toxicity/teratogenicity
- No evidence for: In-vitro mutagenicity
- During animal experiments no indications of reproductive toxicity were observed.
- maleic acid: No evidence for: Carcinogenicity
- No evidence for: In-vitro mutagenicity
- During animal experiments no indications of reproductive toxicity were observed.

### Toxicity

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>methanol</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>15400 mg/l</td>
<td>Lepomis macrochirus</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>316 mg/l</td>
<td>Daphnia magna</td>
</tr>
<tr>
<td>110-16-7</td>
<td>maleic acid</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>106 mg/l</td>
<td>Leucisus idus</td>
</tr>
</tbody>
</table>

### Ecological information

**Toxicity**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>methanol</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>15400 mg/l</td>
<td>Lepomis macrochirus</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>316 mg/l</td>
<td>Daphnia magna</td>
</tr>
<tr>
<td>110-16-7</td>
<td>maleic acid</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>106 mg/l</td>
<td>Leucisus idus</td>
</tr>
</tbody>
</table>

**Acute fish toxicity**

- LC50: 15400 mg/l (Lepomis macrochirus)
- EC50: 316 mg/l (Daphnia magna)

**Acute crustacea toxicity**

- EC50: 316 mg/l (Daphnia magna)
Hematology Reagent C Eosin Stain / Hematology Reagent C Eosin Stain Concentrate (diluted)

Product code: SS-071C, SS-071C-EU, SS-171C2 (DILUTED)

Persistence and degradability
Product is biodegradable.

Bioaccumulative potential
No indication of bio-accumulation potential.

Partition coefficient n-octanol/water

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>methanol</td>
<td>-0,7</td>
</tr>
<tr>
<td>110-16-7</td>
<td>maleic acid</td>
<td>-0,79</td>
</tr>
</tbody>
</table>

SECTION 13: Disposal considerations

Waste treatment methods

Advice on disposal
Waste disposal according to official state regulations. Consult the local waste disposal expert about waste disposal. Moreover, national legislation has to be observed!

Waste disposal number of waste from residues/unused products
160506  WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of used product
160506  WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of contaminated packaging
150110  WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging
Cleaned containers may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

UN number: 1992
UN proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S.
Transport hazard class(es): III
Packing group: 3+6.1

Classification code: FT1
Special Provisions: 274
Limited quantity: 5 L
Transport category: 3
Hazard-no.: 36
Safety Data Sheet

Hematology Reagent C Eosin Stain / Hematology Reagent C Eosin Stain Concentrate (diluted)

Product code: SS-071C, SS-071C-EU, SS-171C2 (DILUTED)

Tunnel restriction code: D/E

Other applicable information (land transport)
- Excepted quantity: E2
- Excepted quantity: E1

Inland waterways transport

<table>
<thead>
<tr>
<th>UN number:</th>
<th>1992</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name:</td>
<td>FLAMMABLE LIQUID, TOXIC, N.O.S.</td>
</tr>
<tr>
<td>Transport hazard class(es):</td>
<td>3</td>
</tr>
<tr>
<td>Packing group:</td>
<td>III</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>3+6.1</td>
</tr>
</tbody>
</table>

Classification code: FT1

Special Provisions: 274 802

Limited quantity: 5 L

Other applicable information (inland waterways transport)
- Excepted quantity: E2
- Excepted quantity: E1

Marine transport

<table>
<thead>
<tr>
<th>UN number:</th>
<th>1992</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name:</td>
<td>FLAMMABLE LIQUID, TOXIC, N.O.S.</td>
</tr>
<tr>
<td>Transport hazard class(es):</td>
<td>3</td>
</tr>
<tr>
<td>Packing group:</td>
<td>III</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>3+6.1</td>
</tr>
</tbody>
</table>

Special Provisions: 223, 274

Limited quantity: 5 L

EmS: F-E, S-D

Other applicable information (marine transport)
- Excepted quantity: E2
- Excepted quantity: E1

Air transport

<table>
<thead>
<tr>
<th>UN/ID number:</th>
<th>1992</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name:</td>
<td>FLAMMABLE LIQUID, TOXIC, N.O.S.</td>
</tr>
<tr>
<td>Transport hazard class(es):</td>
<td>3</td>
</tr>
<tr>
<td>Packing group:</td>
<td>III</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>3+6.1</td>
</tr>
</tbody>
</table>

Limited quantity Passenger: 2 L

IATA-packing instructions - Passenger: 355

IATA-max. quantity - Passenger: 60 L
Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Hematology Reagent C Eosin Stain / Hematology Reagent C Eosin Stain Concentrate (diluted)


IATA-packing instructions - Cargo: 366
IATA-max. quantity - Cargo: 220 L

Other applicable information (air transport)

Excepted quantity: E2
Passenger-LQ: Y341
Excepted quantity: E1
Passenger-LQ: Y344
Passenger-LQ: Y343

SECTION 15: Regulatory information

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

National regulatory information

Employment restrictions: Observe employment restrictions for young people.
Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information

Changes

2014-09-03 Rev. B. Code correction.

Full text of R-phrases referred to under sections 2 and 3

10 Flammable.
11 Highly flammable.
22 Harmful if swallowed.
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
35 Causes severe burns.
36 Irritating to eyes.
36/37/38 Irritating to eyes, respiratory system and skin.
39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
41 Risk of serious damage to eyes.
43 May cause sensitization by skin contact.
51 Toxic to aquatic organisms.
53 May cause long-term adverse effects in the aquatic environment.

Full text of H-statements referred to under sections 2 and 3

H225 Highly 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.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
H370 Causes damage to organs.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. 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.
(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)