

SAFETY DATA SHEET



HEMA-TEK (Modified Wright's) STAIN PAK

SDS no.:

4481.KIT

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

1.1 Product identifier

Product name : HEMA-TEK (Modified Wright's) STAIN PAK**Product code** : 4481.KIT, 03637962, 06689653, 10310965

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

| | | |
|------------------------|--|--------------------|
| Identified uses | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Diagnostic agents. |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | Diagnostic agents. |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | Diagnostic agents. |

Restrictions on use For professional users only.

Supplier : Siemens Healthcare Diagnostics Limited
Park View,
Watchmoor Park,
Camberley,
Surrey,
GU15 3YL
United Kingdom

Phone: +44 (0) 345 600 1955

e-mail address of person responsible for this SDS : dx.msds.healthcare@siemens-healthineers.com

1.4 Emergency telephone number

CHEMTREC: +44 20 3807 3798

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

| | | |
|---------------------------|--|---------|
| Product definition | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Mixture |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | Mixture |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | Mixture |

Classification according to UK CLP/GHS

HEMA-TEK (Modified Wright's) RINSE SOLUTION

Flam. Liq. 3, H226

Acute Tox. 4, H302

STOT SE 2, H371

HEMA-TEK (Modified Wright's) STAIN SOLUTION

Flam. Liq. 2, H225

Acute Tox. 3, H301

Acute Tox. 3, H311

Acute Tox. 3, H331

STOT SE 1, H370

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

SECTION 2: Hazards identification

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word

: HEMA-TEK (Modified Wright's) BUFFER SOLUTION No signal word.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Warning
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Danger

Hazard statements

: HEMA-TEK (Modified Wright's) BUFFER SOLUTION No known significant effects or critical hazards.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION H226 - Flammable liquid and vapour.
 H302 - Harmful if swallowed.
 H371 - May cause damage to organs.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION H225 - Highly flammable liquid and vapour.
 H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.
 H370 - Causes damage to organs.

Precautionary statements

Prevention

: HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not applicable.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION P210 - Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
 P233 - Keep container tightly closed.
 P260 - Do not breathe vapour.
 P264 - Wash hands thoroughly after handling.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION P210 - Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
 P233 - Keep container tightly closed.
 P260 - Do not breathe vapour.
 P264 - Wash hands thoroughly after handling.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

: HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not applicable.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION P308 - IF exposed or concerned:
 P311 - Call a POISON CENTER or doctor/physician.
 P330 - Rinse mouth.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION P301 - IF SWALLOWED:
 P310 - Immediately call a POISON CENTER or doctor/physician.
 P330 - Rinse mouth.
 P304 - IF INHALED:
 P340 - Remove victim to fresh air and keep at rest in a position comfortable for

SECTION 2: Hazards identification

| | | |
|---|--|---|
| | | breathing. P361 + P364 - Take off immediately all contaminated clothing and wash it before reuse. |
| Storage | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not applicable. P403 + P235 - Store in a well-ventilated place. Keep cool. P403 + P235 - Store in a well-ventilated place. Keep cool. |
| Disposal | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, and national regulations. P501 - Dispose of contents and container in accordance with all local, regional, and national regulations. |
| Supplemental label elements | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not applicable. Not applicable. Not applicable. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not applicable. Not applicable. Not applicable. |
| 2.3 Other hazards | | |
| Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Other hazards which do not result in classification | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | None known. None known. None known. |
| Additional information | : Not available. Not available. | |

SECTION 3: Composition/information on ingredients

| | | |
|-----------------------|--|-------------------------------|
| 3.1 Substances | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | Mixture Mixture Mixture |
|-----------------------|--|-------------------------------|

SECTION 3: Composition/information on ingredients

| Product/ingredient name | Identifiers | % | Classification | Type |
|--|--|-----|--|---------|
| HEMA-TEK (Modified Wright's) RINSE SOLUTION methanol | EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X | <10 | Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 | [1] [2] |
| HEMA-TEK (Modified Wright's) STAIN SOLUTION methanol | EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X | ≥90 | Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 See Section 16 for the full text of the H statements declared above. | [1] [2] |

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

| | | |
|--------------------|--|---|
| Eye contact | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. |
| Inhalation | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling |

SECTION 4: First aid measures

unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

HEMA-TEK (Modified Wright's) STAIN SOLUTION

Skin contact

: HEMA-TEK (Modified Wright's) BUFFER SOLUTION

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

HEMA-TEK (Modified Wright's) RINSE SOLUTION

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

HEMA-TEK (Modified Wright's) STAIN SOLUTION

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: HEMA-TEK (Modified Wright's) BUFFER SOLUTION

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

HEMA-TEK (Modified Wright's) RINSE SOLUTION

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If

SECTION 4: First aid measures

necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

HEMA-TEK (Modified Wright's) STAIN SOLUTION

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders : HEMA-TEK (Modified Wright's) BUFFER SOLUTION
HEMA-TEK (Modified Wright's) RINSE SOLUTION

No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

HEMA-TEK (Modified Wright's) STAIN SOLUTION

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : HEMA-TEK (Modified Wright's) BUFFER SOLUTION No specific data.
HEMA-TEK (Modified Wright's) RINSE SOLUTION No specific data.
HEMA-TEK (Modified Wright's) STAIN SOLUTION No specific data.

Inhalation : HEMA-TEK (Modified Wright's) BUFFER SOLUTION No specific data.
HEMA-TEK (Modified Wright's) RINSE SOLUTION No specific data.
HEMA-TEK (Modified Wright's) STAIN SOLUTION No specific data.

SECTION 4: First aid measures

| | | |
|---------------------|--|-------------------|
| Skin contact | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION | No specific data. |
| | : HEMA-TEK (Modified Wright's) RINSE SOLUTION | No specific data. |
| | : HEMA-TEK (Modified Wright's) STAIN SOLUTION | No specific data. |
| Ingestion | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION | No specific data. |
| | : HEMA-TEK (Modified Wright's) RINSE SOLUTION | No specific data. |
| | : HEMA-TEK (Modified Wright's) STAIN SOLUTION | No specific data. |

4.3 Indication of any immediate medical attention and special treatment needed

| | | |
|----------------------------|--|---|
| Notes to physician | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | : HEMA-TEK (Modified Wright's) RINSE SOLUTION | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | : HEMA-TEK (Modified Wright's) STAIN SOLUTION | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION | No specific treatment. |
| | : HEMA-TEK (Modified Wright's) RINSE SOLUTION | No specific treatment. |
| | : HEMA-TEK (Modified Wright's) STAIN SOLUTION | No specific treatment. |
| | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Not available. |
| | : HEMA-TEK (Modified Wright's) RINSE SOLUTION | Not available. |
| | : HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not available. |

SECTION 5: Firefighting measures

5.1 Extinguishing media

| | |
|---------------------------------------|---|
| Suitable extinguishing media | : Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | : None known. |

5.2 Special hazards arising from the substance or mixture

| | |
|--|--|
| Hazards from the substance or mixture | : In a fire or if heated, a pressure increase will occur and the container may burst. |
| Hazardous combustion products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide |

5.3 Advice for firefighters

| | |
|---|---|
| Special protective actions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

HEMA-TEK (Modified Wright's) STAIN PAK

SECTION 7: Handling and storage

| Category | Notification and MAPP threshold | Safety report threshold |
|--|------------------------------------|---------------------------------------|
| HEMA-TEK (Modified Wright's) RINSE SOLUTION P5c | 5000 tonne | 50000 tonne |
| HEMA-TEK (Modified Wright's) STAIN SOLUTION H2 H3 P5c | 50 tonne 50 tonne 5000 tonne | 200 tonne 200 tonne 50000 tonne |

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|---|---|
| HEMA-TEK (Modified Wright's) RINSE SOLUTION methanol | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 333 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. |
| HEMA-TEK (Modified Wright's) STAIN SOLUTION methanol | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 333 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. |

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|---|------|-------------------|-----------------|--------------------|----------|
| HEMA-TEK (Modified Wright's) RINSE SOLUTION methanol | DNEL | Short term Oral | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Oral | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 20 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Dermal | 20 mg/kg bw/day | Workers | Systemic |

SECTION 8: Exposure controls/personal protection

| | | | | | |
|--|-----------------------|-----------------------|--------------------------------|--------------------|----------|
| HEMA-TEK (Modified Wright's) STAIN SOLUTION methanol | DNEL | Short term Inhalation | bw/day 26 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 26 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 26 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 26 mg/m ³ | General population | Systemic |
| | DNEL | Short term Inhalation | 130 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 130 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 130 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 130 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Oral | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Oral | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 20 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Dermal | 20 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 26 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 26 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 26 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 26 mg/m ³ | General population | Systemic |
| | DNEL | Short term Inhalation | 130 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 130 mg/m ³ | Workers | Local |
| DNEL | Short term Inhalation | 130 mg/m ³ | Workers | Systemic | |
| DNEL | Long term Inhalation | 130 mg/m ³ | Workers | Systemic | |

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 8: Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Liquid.
HEMA-TEK (Modified Wright's) RINSE SOLUTION Liquid.
HEMA-TEK (Modified Wright's) STAIN SOLUTION Liquid.
- Colour** : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Colourless.
HEMA-TEK (Modified Wright's) RINSE SOLUTION Colourless.
HEMA-TEK (Modified Wright's) STAIN SOLUTION Blue.
- Odour** : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Odourless.
HEMA-TEK (Modified Wright's) RINSE SOLUTION Bland.
HEMA-TEK (Modified Wright's) STAIN SOLUTION Bland.
- Odour threshold** : Not relevant/applicable due to nature of the product.
- Melting point/freezing point** : Not relevant/applicable due to nature of the product.
- Softening point** : Not relevant/applicable due to nature of the product.
- Sublimation temperature** : Not relevant/applicable due to nature of the product.

SECTION 9: Physical and chemical properties

| | | |
|---|--|---|
| Initial boiling point and boiling range | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not available. Not available. Not available. |
| Flammability (solid, gas) | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. |
| Upper/lower flammability or explosive limits | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not available. Not available. Not available. |
| Flash point | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | [Product does not sustain combustion.] Closed cup: 60°C (140°F) Closed cup: 11°C (51.8°F) |

Auto-ignition temperature :

| Ingredient name | °C | °F | Method |
|---|-----|-----|-----------|
| HEMA-TEK (Modified Wright's) RINSE SOLUTION methanol | 455 | 851 | DIN 51794 |
| HEMA-TEK (Modified Wright's) STAIN SOLUTION methanol | 455 | 851 | DIN 51794 |

| | | |
|--|--|--|
| Decomposition temperature | : Not relevant/applicable due to nature of the product. | |
| pH | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | 6.8 to 7 6.75 to 6.85 Not available. |
| Viscosity | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not available. Not available. Not available. |
| Solubility(ies) | : Not available. | |
| Solubility in water | : Not relevant/applicable due to nature of the product. | |
| Miscible with water | : Not relevant/applicable due to nature of the product. | |
| Partition coefficient: n-octanol/ water | : Not relevant/applicable due to nature of the product. | |
| Vapour pressure | : | |

SECTION 9: Physical and chemical properties

| Ingredient name | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|--|-------------------------|------|--------|-------------------------|-----|--------|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| HEMA-TEK (Modified Wright's) BUFFER SOLUTION water | 23.8 | 3.2 | | | | |
| HEMA-TEK (Modified Wright's) RINSE SOLUTION methanol | 126.96 | 16.9 | | | | |
| HEMA-TEK (Modified Wright's) STAIN SOLUTION methanol | 126.96 | 16.9 | | | | |

Evaporation rate : Not relevant/applicable due to nature of the product.

Relative density : HEMA-TEK (Modified Wright's) BUFFER SOLUTION 1
HEMA-TEK (Modified Wright's) RINSE SOLUTION 1
HEMA-TEK (Modified Wright's) STAIN SOLUTION 0.7914

Density : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Vapour density : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Explosive properties : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Oxidising properties : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

Fire point : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Burning time : Not relevant/applicable due to nature of the product.

Fundamental burning velocity : Not relevant/applicable due to nature of the product.

Burning rate : Not relevant/applicable due to nature of the product.

HEMA-TEK (Modified Wright's) STAIN PAK

SECTION 9: Physical and chemical properties

| | |
|-----------------------------|---|
| SADT | : Not relevant/applicable due to nature of the product. |
| SAPT | : Not relevant/applicable due to nature of the product. |
| Heat of reaction | : Not relevant/applicable due to nature of the product. |
| Heat of combustion | : Not relevant/applicable due to nature of the product. |
| Flow time (ISO 2431) | : Not relevant/applicable due to nature of the product. |
| Molecular weight | : Not relevant/applicable due to nature of the product. |

SECTION 10: Stability and reactivity

| | |
|--|--|
| 10.1 Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
| 10.2 Chemical stability | : The product is stable. |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.4 Conditions to avoid | : No specific data. |
| 10.5 Incompatible materials | : No specific data. |
| 10.6 Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|----------------------|---------|-------------|----------|
| HEMA-TEK (Modified Wright's) RINSE SOLUTION methanol | LC50 Inhalation Gas. | Rat | 145000 ppm | 1 hours |
| | LC50 Inhalation Gas. | Rat | 64000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 15800 mg/kg | - |
| | LD50 Oral | Rat | 5600 mg/kg | - |
| HEMA-TEK (Modified Wright's) STAIN SOLUTION methanol | LC50 Inhalation Gas. | Rat | 145000 ppm | 1 hours |
| | LC50 Inhalation Gas. | Rat | 64000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 15800 mg/kg | - |
| | LD50 Oral | Rat | 5600 mg/kg | - |

| | |
|---------------------------|---|
| Conclusion/Summary | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available. |
| | : HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available. |
| | : HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available. |

Acute toxicity estimates

HEMA-TEK (Modified Wright's) STAIN PAK

SECTION 11: Toxicological information

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION methanol | 1269 100 | 3807.1 300 | N/A 64000 | 38.1 3 | N/A N/A |
| HEMA-TEK (Modified Wright's) STAIN SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION methanol | 100.7 100 | 302.1 300 | N/A 64000 | 3 3 | N/A N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--|--------------------------|---------|-------|-----------------|-------------|
| HEMA-TEK (Modified Wright's) RINSE SOLUTION methanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |
| | Eyes - Moderate irritant | Rabbit | - | 40 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 mg | - |
| HEMA-TEK (Modified Wright's) STAIN SOLUTION methanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |
| | Eyes - Moderate irritant | Rabbit | - | 40 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 mg | - |

Conclusion/Summary

| | | |
|--------------------|--|----------------|
| Skin | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Not available. |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | Not available. |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not available. |
| Eyes | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Not available. |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | Not available. |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not available. |
| Respiratory | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Not available. |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | Not available. |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not available. |

Sensitisation

Conclusion/Summary

| | | |
|-------------|--|----------------|
| Skin | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Not available. |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | Not available. |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not available. |

SECTION 11: Toxicological information

Respiratory : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Mutagenicity

Conclusion/Summary : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Carcinogenicity

Conclusion/Summary : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Reproductive toxicity

Conclusion/Summary : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Teratogenicity

Conclusion/Summary : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|------------|-------------------|---------------|
| HEMA-TEK (Modified Wright's) RINSE SOLUTION methanol | Category 1 | - | - |
| HEMA-TEK (Modified Wright's) STAIN SOLUTION methanol | Category 1 | - | - |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Potential acute health effects

SECTION 11: Toxicological information

| | | |
|---------------------|--|--|
| Eye contact | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Inhalation | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | No known significant effects or critical hazards. May cause damage to organs following a single exposure if inhaled. Toxic if inhaled. Causes damage to organs following a single exposure if inhaled. |
| Skin contact | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | No known significant effects or critical hazards. May cause damage to organs following a single exposure in contact with skin. Toxic in contact with skin. Causes damage to organs following a single exposure in contact with skin. |
| Ingestion | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | No known significant effects or critical hazards. Harmful if swallowed. May cause damage to organs following a single exposure if swallowed. Toxic if swallowed. Causes damage to organs following a single exposure if swallowed. |

Symptoms related to the physical, chemical and toxicological characteristics

| | | |
|---------------------|--|---|
| Eye contact | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | No specific data. No specific data. No specific data. |
| Inhalation | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | No specific data. No specific data. No specific data. |
| Skin contact | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | No specific data. No specific data. No specific data. |
| Ingestion | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION HEMA-TEK (Modified Wright's) RINSE SOLUTION HEMA-TEK (Modified Wright's) STAIN SOLUTION | No specific data. No specific data. No specific data. |

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

Short term exposure

SECTION 11: Toxicological information

Potential immediate effects : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Potential delayed effects : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Long term exposure

Potential immediate effects : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Potential delayed effects : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

General : HEMA-TEK (Modified Wright's) BUFFER SOLUTION No known significant effects or critical hazards.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION No known significant effects or critical hazards.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION No known significant effects or critical hazards.

Carcinogenicity : HEMA-TEK (Modified Wright's) BUFFER SOLUTION No known significant effects or critical hazards.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION No known significant effects or critical hazards.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION No known significant effects or critical hazards.

Mutagenicity : HEMA-TEK (Modified Wright's) BUFFER SOLUTION No known significant effects or critical hazards.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION No known significant effects or critical hazards.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION No known significant effects or critical hazards.

Reproductive toxicity : HEMA-TEK (Modified Wright's) BUFFER SOLUTION No known significant effects or critical hazards.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION No known significant effects or critical hazards.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION No known significant effects or critical hazards.

HEMA-TEK (Modified Wright's) STAIN PAK

SECTION 11: Toxicological information

Interactive effects : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Toxicokinetics

Absorption : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Distribution : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Metabolism : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Elimination : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

Other information : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|--------------------------------------|--|----------|
| HEMA-TEK (Modified Wright's) RINSE SOLUTION methanol | Acute EC50 16.912 mg/l Marine water | Algae - Green algae - Ulva pertusa | 96 hours |
| | Acute LC50 2500000 µg/l Marine water | Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult | 48 hours |
| | Acute LC50 3289 mg/l Fresh water | Daphnia - Water flea - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 290 mg/l Fresh water | Fish - Zebra danio - Danio rerio - Egg | 96 hours |
| | Chronic NOEC 9.96 mg/l Marine water | Algae - Green algae - Ulva pertusa | 96 hours |
| HEMA-TEK (Modified Wright's) STAIN SOLUTION | | | |

SECTION 12: Ecological information

| | | | |
|----------|--------------------------------------|--|----------|
| methanol | Acute EC50 16.912 mg/l Marine water | Algae - Green algae - Ulva pertusa | 96 hours |
| | Acute LC50 2500000 µg/l Marine water | Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult | 48 hours |
| | Acute LC50 3289 mg/l Fresh water | Daphnia - Water flea - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 290 mg/l Fresh water | Fish - Zebra danio - Danio rerio - Egg | 96 hours |
| | Chronic NOEC 9.96 mg/l Marine water | Algae - Green algae - Ulva pertusa | 96 hours |

Conclusion/Summary : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

12.2 Persistence and degradability

Conclusion/Summary : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------|
| HEMA-TEK (Modified Wright's) RINSE SOLUTION methanol | - | - | Readily |
| HEMA-TEK (Modified Wright's) STAIN SOLUTION methanol | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--|--------------------|-----|-----------|
| HEMA-TEK (Modified Wright's) RINSE SOLUTION methanol | -0.77 | <10 | low |
| HEMA-TEK (Modified Wright's) STAIN SOLUTION methanol | -0.77 | <10 | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : HEMA-TEK (Modified Wright's) BUFFER SOLUTION Not available.
 HEMA-TEK (Modified Wright's) RINSE SOLUTION Not available.
 HEMA-TEK (Modified Wright's) STAIN SOLUTION Not available.

SECTION 12: Ecological information

| | | | |
|-----------------|---|--|----------------|
| Mobility | : | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Not available. |
| | : | HEMA-TEK (Modified Wright's) RINSE SOLUTION | Not available. |
| | : | HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not available. |

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID

| | | |
|--|--|----------------|
| 14.1 UN number | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Not regulated. |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | Not regulated. |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | UN1230 |
| 14.2 UN proper shipping name | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | Methanol |
| 14.3 Transport hazard class(es) | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | 3 (6.1) |

HEMA-TEK (Modified Wright's) STAIN PAK

SECTION 14: Transport information

| | | |
|-----------------------------------|--|-----|
| 14.4 Packing group | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | II |
| 14.5 Environmental hazards | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | No. |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | No. |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | No. |
| Additional information | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | - |

ADN

| | | |
|--|--|----------------|
| 14.1 UN number | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Not regulated. |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | Not regulated. |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | UN1230 |
| 14.2 UN proper shipping name | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | Methanol |
| 14.3 Transport hazard class(es) | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | 3 (6.1) |

| | | |
|-----------------------------------|--|-----|
| 14.4 Packing group | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | II |
| 14.5 Environmental hazards | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | No. |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | No. |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | No. |
| Additional information | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | - |

IMDG

HEMA-TEK (Modified Wright's) STAIN PAK

SECTION 14: Transport information

| | | |
|--|--|----------------|
| 14.1 UN number | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Not regulated. |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | Not regulated. |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | UN1230 |
| 14.2 UN proper shipping name | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | Methanol |
| 14.3 Transport hazard class(es) | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | 3 (6.1) |
| 14.4 Packing group | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | II |
| 14.5 Environmental hazards | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | No. |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | No. |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | No. |
| Additional information | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | - |

IATA

| | | |
|--|--|----------------|
| 14.1 UN number | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Not regulated. |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | Not regulated. |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | UN1230 |
| 14.2 UN proper shipping name | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | Methanol |
| 14.3 Transport hazard class(es) | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | 3 (6.1) |

HEMA-TEK (Modified Wright's) STAIN PAK

SECTION 14: Transport information

| | | | |
|--|--|-----|--|
| 14.4 Packing group | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - | |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - | |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | II | |
| 14.5 Environmental hazards | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | No. | |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | No. | |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | No. | |
| Additional information | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | - | |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | - | |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | - | |
| 14.6 Special precautions for user | HEMA-TEK (Modified Wright's) BUFFER SOLUTION | | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. |
| | HEMA-TEK (Modified Wright's) RINSE SOLUTION | | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. |
| | HEMA-TEK (Modified Wright's) STAIN SOLUTION | | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. |
| 14.7 Transport in bulk according to IMO instruments | Not applicable. | | |

SECTION 15: Regulatory information

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

UK (GB) /REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

SECTION 15: Regulatory information

Not listed.

Persistent Organic Pollutants

Not listed.

| | | |
|---|--|-----------------|
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Not applicable. |
| | : HEMA-TEK (Modified Wright's) RINSE SOLUTION | Not applicable. |
| | : HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not applicable. |

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

HEMA-TEK (Modified Wright's) RINSE SOLUTION

P5c

HEMA-TEK (Modified Wright's) STAIN SOLUTION

H2

H3

P5c

EU regulations

| | | |
|---|--|------------|
| Industrial emissions (integrated pollution prevention and control) - Air | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Not listed |
| | : HEMA-TEK (Modified Wright's) RINSE SOLUTION | Not listed |
| | : HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not listed |
| Industrial emissions (integrated pollution prevention and control) - Water | : HEMA-TEK (Modified Wright's) BUFFER SOLUTION | Not listed |
| | : HEMA-TEK (Modified Wright's) RINSE SOLUTION | Not listed |
| | : HEMA-TEK (Modified Wright's) STAIN SOLUTION | Not listed |

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment : Not applicable.

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
 GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
 DMEL = Derived Minimal Effect Level
 DNEL = Derived No Effect Level
 EUH statement = GB CLP-specific Hazard statement
 N/A = Not available
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number
 SGG = Segregation Group
 vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

| Classification | Justification |
|---|---|
| HEMA-TEK (Modified Wright's) RINSE SOLUTION Flam. Liq. 3, H226 Acute Tox. 4, H302 STOT SE 2, H371 | On basis of test data Calculation method Calculation method |
| HEMA-TEK (Modified Wright's) STAIN SOLUTION Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 | On basis of test data Calculation method Calculation method Calculation method Calculation method |

Full text of abbreviated H statements

| | |
|--|-------------------------------------|
| HEMA-TEK (Modified Wright's) RINSE SOLUTION | |
| 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. |
| H331 | Toxic if inhaled. |
| H370 | Causes damage to organs. |
| H371 | May cause damage to organs. |
| HEMA-TEK (Modified Wright's) STAIN SOLUTION | |
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H331 | Toxic if inhaled. |
| H370 | Causes damage to organs. |

Full text of classifications

HEMA-TEK (Modified Wright's) STAIN PAK

SECTION 16: Other information

HEMA-TEK

(Modified Wright's)

RINSE SOLUTION

| | |
|--------------|---|
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| STOT SE 1 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1 |
| STOT SE 2 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2 |

HEMA-TEK

(Modified Wright's)

STAIN SOLUTION

| | |
|--------------|---|
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| STOT SE 1 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1 |

| | |
|--|--------------------------|
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| Date of issue/ Date of revision | : 12/13/2022 |
| Date of previous issue | : No previous validation |
| Version | : 1 |

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