

Safety Data Sheet


according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: June 18, 2020

1 Identification

- **Product identifier**
- **Trade name:** CyStain® UV Precise P - Nuclei Extraction Buffer
- **Other means of identification:** 05-5002 B
- **Recommended use and restriction on use**
- **Recommended use:** Laboratory chemicals
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
SYSMEX AMERICA, Inc
577 Aptakisic Road
Lincolnshire, IL 60069 USA
Phone: 847-996-4500
1-800-3SYSMEX (1-800-379-7639)
- **Emergency telephone number:**
ChemTel
(800)255-3924 (North America)
+1 (813)248-0585 (International)

2 Hazard(s) identification

- **Classification of the substance or mixture**
Met. Corr.1 H290 May be corrosive to metals.
Eye Dam. 1 H318 Causes serious eye damage.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**

GHS05
- **Signal word:** Danger
- **Hazard statements:**
H290 May be corrosive to metals.
H318 Causes serious eye damage.
- **Precautionary statements:**
P234 Keep only in original container.
P280 Wear eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a poison center/doctor.
P390 Absorb spillage to prevent material damage.

(Cont'd. on page 2)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: June 18, 2020

Trade name: CyStain® UV Precise P - Nuclei Extraction Buffer

P406 Store in corrosive resistant container with a resistant inner liner. (Cont'd. of page 1)

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

| | | |
|-----------|--|-----|
| 9036-19-5 | Polyethylene glycol octylphenyl ether | <5% |
| | <ul style="list-style-type: none"> ☞ Eye Dam. 1, H318 ☠ Acute Tox. 4, H302 | |
| 7647-01-0 | hydrochloric acid | <1% |
| | <ul style="list-style-type: none"> ☞ Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 ☠ Acute Tox. 4, H302; STOT SE 3, H335 | |

· **Additional information:** For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

· **Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.
If skin irritation is experienced, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

· **Most important symptoms and effects, both acute and delayed:**

Strong irritant with the danger of severe eye injury.

· **Indication of any immediate medical attention and special treatment needed:**

No relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

Foam
Carbon dioxide
Fire-extinguishing powder
Water spray

· **For safety reasons unsuitable extinguishing agents:** Water stream.

(Cont'd. on page 3)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: June 18, 2020

Trade name: CyStain® UV Precise P - Nuclei Extraction Buffer

(Cont'd. of page 2)

- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Use personal protective equipment as required.
- **Environmental precautions**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up**
Wipe up small spills with paper towel and discard.
For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard.
Dispose of the collected material according to regulations.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Precautions for safe handling:**
Avoid splashes or spray in enclosed areas.
Use only in well ventilated areas.
Prevent formation of aerosols.
Avoid contact with the eyes and skin.
Avoid breathing mist, vapors, or spray.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**
Avoid storage near extreme heat.
Use only receptacles specifically permitted for this substance/product.
Unsuitable material for receptacle: aluminium.
- **Information about storage in one common storage facility:**
Store away from oxidizing agents.
Store away from metals.
Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:**

(Cont'd. on page 4)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: June 18, 2020

Trade name: CyStain® UV Precise P - Nuclei Extraction Buffer

(Cont'd. of page 3)

- Store in cool, dry conditions in well sealed receptacles.
- Storage Temperatures: 39.2 °F / 4 °C.
- **Specific end use(s)** No relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

7647-01-0 hydrochloric acid

| | |
|---------------|---|
| PEL (USA) | Ceiling limit value: 7 mg/m ³ , 5 ppm |
| REL (USA) | Ceiling limit value: 7 mg/m ³ , 5 ppm |
| TLV (USA) | Ceiling limit value: 2.98 mg/m ³ , 2 ppm |
| EL (Canada) | Ceiling limit value: 2 ppm |
| EV (Canada) | Ceiling limit value: 2 ppm |
| LMPE (Mexico) | Ceiling limit value: 2 ppm |
| | A4 |

· **Exposure controls**

· **General protective and hygienic measures:**

- The usual precautionary measures for handling chemicals should be followed.
- Keep away from foodstuffs, beverages and feed.
- Avoid contact with the eyes and skin.
- Avoid breathing mist, vapors, or spray.

· **Engineering controls:** No relevant information available.

· **Breathing equipment:** Not required under normal conditions of use.

· **Protection of hands:**

- Gloves are advised for repeated or prolonged contact.
- Wear protective gloves to handle contents of damaged or leaking units.
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment**

Avoid release to the environment.

· **Risk management measures** No special requirements.

9 Physical and chemical properties

(Cont'd. on page 5)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: June 18, 2020

Trade name: CyStain® UV Precise P - Nuclei Extraction Buffer

(Cont'd. of page 4)

· **Information on basic physical and chemical properties**

· **Appearance:**

| | |
|-------------------|-----------------|
| Form: | Liquid |
| Color: | Transparent |
| · Odor: | Not determined. |
| · Odor threshold: | Not determined. |

| | |
|--------------------------------|-----------------|
| · pH-value: | 1.8 |
| · Melting point/Melting range: | Not determined. |
| · Boiling point/Boiling range: | Not determined. |

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

· Auto-ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· Danger of explosion: Product does not present an explosion hazard.

· **Explosion limits**

| | |
|--------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

· Oxidizing properties: Non-oxidizing.

· Vapor pressure: Not determined.

· **Density:**

| | |
|-------------------|-----------------|
| Relative density: | Not determined. |
| Vapor density: | Not determined. |
| Evaporation rate: | Not determined. |

· **Solubility in / Miscibility with**

Water: Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

· **Viscosity**

| | |
|------------|-----------------|
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |

· **Other information** No relevant information available.

10 Stability and reactivity

· **Reactivity:** No relevant information available.

· **Chemical stability:** Stable under normal temperatures and pressures.

· **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.

(Cont'd. on page 6)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: June 18, 2020

Trade name: CyStain® UV Precise P - Nuclei Extraction Buffer

(Cont'd. of page 5)

- **Possibility of hazardous reactions**
 Reacts with alkali (lyes).
 Corrodes aluminium.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials**
 Metals.
 Alkalis.
- **Hazardous decomposition products**
 Under fire conditions only:
 Carbon monoxide and carbon dioxide
 Chlorine compounds

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Based on available data, the classification criteria are not met.

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

· **Probable route(s) of exposure:**

- Ingestion.
- Inhalation.
- Eye contact.
- Skin contact.

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological information

- **Toxicity**

(Cont'd. on page 7)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: June 18, 2020

Trade name: CyStain® UV Precise P - Nuclei Extraction Buffer

(Cont'd. of page 6)

· **Aquatic toxicity**

9036-19-5 Polyethylene glycol octylphenyl ether

EC50 | 4.8-8.9 mg/l (pimephales promelas) (static test, 96H)

- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Other adverse effects** No relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Smaller quantities can be disposed of with household waste.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· **Uncleaned packagings**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**

· **DOT, ADR/RID/ADN, IMDG, IATA** UN1789

· **UN proper shipping name**

· **DOT, IATA** Hydrochloric acid, solution
 · **ADR/RID/ADN, IMDG** HYDROCHLORIC ACID, SOLUTION

· **Transport hazard class(es)**

· **DOT**



· **Class** 8

· **Label** 8

(Cont'd. on page 8)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: June 18, 2020

Trade name: CyStain® UV Precise P - Nuclei Extraction Buffer

(Cont'd. of page 7)

· **ADR/RID/ADN**



· **Class** 8 (C1)
 · **Label** 8

· **IMDG, IATA**



· **Class** 8
 · **Label** 8

· **Packing group**

· **DOT, ADR/RID/ADN, IMDG, IATA** III

· **Environmental hazards**

· **Marine pollutant:** No

· **Special precautions for user**

Warning: Corrosive substances

· **Hazard identification number (Kemler code):** 80

· **EMS Number:** F-A,S-B

· **Segregation groups** Strong acids

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **DOT** See 173.154(d) for corrosive exceptions.



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· **ADR/RID/ADN**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· **IMDG**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

(Cont'd. on page 9)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: June 18, 2020

Trade name: CyStain® UV Precise P - Nuclei Extraction Buffer

(Cont'd. of page 8)

· IATA



Limited Quantity for packages less than 30 kg gross and inner packagings less than 0.5 L each / 1 L net.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed or exempt.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **Canadian Domestic Substances List (DSL):**

All ingredients are listed or exempt.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

(Cont'd. on page 10)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: June 18, 2020

Trade name: CyStain® UV Precise P - Nuclei Extraction Buffer

(Cont'd. of page 9)

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
OSHA: Occupational Safety & Health Administration
Met. Corr. 1: Corrosive to metals – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· Sources

Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtel.com