

# Safety Data Sheet

Issue Date: 26-Mar-2021

Revision Date: 16-Apr-2021

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** CyStain PI Absolute P - Nuclei Extraction Buffer

**Product Code** 05-5022-P02

### Recommended use of the chemical and restrictions on use

**Recommended Use** Laboratory chemicals

### Details of the supplier of the safety data sheet

#### Manufacturer Address

Sysmex Americas  
577 Aptakistic RD  
Lincolnshire, IL 60069  
USA

### Emergency telephone number

**Initial supplier phone number** (224) 543-9500  
**Emergency Telephone** Chemtel 800-255-3924

## 2. HAZARDS IDENTIFICATION

**Appearance** Transparent liquid

**Physical state** Liquid

### Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Corrosive to Metals	Category 1

### Label elements

#### Signal word

**Danger**

#### **Hazard statements**

Harmful if inhaled  
Causes severe skin burns and eye damage

**Precautionary Statements - Prevention**

Use only outdoors or in a well-ventilated area  
 Do not breathe dust/fume/gas/mist/vapours/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep only in original container

**Precautionary Statements - Response**

Immediately call a POISON CENTRE or doctor  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTRE or doctor  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 Immediately call a POISON CENTRE or doctor  
 IF SWALLOWED: rinse mouth. Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

**Mixture**

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Sodium hydroxide	1310-73-2	1-5	-	-
Hydrogen chloride	7647-01-0	1-5	-	-

### 4. FIRST AID MEASURES

**Description of first aid measures**

<b>General advice</b>	Provide this SDS to medical personnel for treatment.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor.
<b>Skin contact</b>	Remove/take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. Immediately call a poison centre or doctor/physician.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a poison centre or doctor/physician.

**Ingestion** Rinse mouth. Do NOT induce vomiting.

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

**Symptoms** May be harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage.

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

**Note to doctors** Treat symptomatically.

## 5. FIREFIGHTING MEASURES

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** Not determined.

**Specific hazards arising from the chemical** Not determined.

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protective equipment as required.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Keep in suitable, closed containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face protection. Keep only in original container.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

Chemical name	Canada - Alberta - Occupational Exposure Limits - Ceilings	Canada - British Columbia - Occupational Exposure Limits - Ceilings	Canada - Ontario - Occupational Exposure Limits - Ceilings	Quebec
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	CEV: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Hydrogen chloride 7647-01-0	Ceiling: 2 ppm Ceiling: 3 mg/m <sup>3</sup>	Ceiling: 2 ppm	CEV: 2 ppm	Ceiling: 2 ppm

### Appropriate engineering controls

**Engineering controls** Apply technical measures to comply with the occupational exposure limits.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear eye/face protection. If necessary, refer to appropriate regulations and standards.

**Skin and body protection** Wear protective gloves and protective clothing. If necessary, refer to appropriate regulations and standards.

**Respiratory protection** If necessary, refer to appropriate regulations and standards.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	Transparent liquid
<b>Colour</b>	transparent
<b>Odour</b>	Not determined
<b>Odour Threshold</b>	Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	1.8	
Melting point / freezing point	Not determined	
Boiling point / boiling range	Not determined	
Flash point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Flammability Limit in Air		
Upper flammability or explosive limits	Not determined	
Lower flammability or explosive limits	Not determined	
Vapour Pressure	Not determined	
Vapour Density	Not determined	
Relative Density	Not determined	
Water Solubility	Not determined	
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	

Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive properties	Not determined.
Oxidising properties	Not determined.

**Other information**

Softening Point	Not determined
Molecular weight	Not determined
VOC Content (%)	Not determined
Liquid Density	Not determined
Bulk density	Not determined

## 10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to Avoid	Keep out of reach of children.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

Eye contact	Avoid contact with eyes.
Skin contact	Avoid contact with skin.
Inhalation	Harmful if inhaled.
Ingestion	May be harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics**

Symptoms	Please see section 4 of this SDS for symptoms.
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**Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	4,661.9321 mg/kg
ATEmix (dermal)	25,341.30 mg/kg
ATEmix (inhalation-gas)	23,470.90 mg/L
ATEmix (inhalation-dust/mist)	2.09 mg/L

Unknown acute toxicity	No information available
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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hydroxide	= 325 mg/kg ( Rat )	= 1350 mg/kg ( Rabbit )	-

1310-73-2			
Hydrogen chloride 7647-01-0	238 - 277 mg/kg ( Rat )	> 5010 mg/kg ( Rabbit )	= 1.68 mg/L ( Rat ) 1 h
Alcohols, C11-15, secondary 68131-40-8	= 2100 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-

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

**Skin corrosion/irritation** Causes severe skin burns.

**Serious eye damage/eye irritation** Causes severe eye damage.

**Carcinogenicity** Group 3 IARC components are "not classifiable as human carcinogens".

Chemical name	ACGIH	IARC	NTP	OSHA
Hydrogen chloride 7647-01-0	-	Group 3	-	X

**Legend**

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

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**OSHA (Occupational Safety and Health Administration of the US Department of Labour)**

X - Present

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium hydroxide 1310-73-2	-	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	-	-

**Persistence/Degradability** No information available.

**Bioaccumulation** No information available.

**Other Adverse Effects** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

**DOT**

**UN/ID No** UN1760  
**Proper Shipping Name** Corrosive liquid, n.o.s. (Sodium hydroxide, Hydrogen chloride)  
**Hazard class** 8  
**Packing Group** II

**TDG**

UN/ID No UN1760  
 Proper Shipping Name Corrosive liquid, n.o.s. (Sodium hydroxide, Hydrogen chloride)  
 Hazard class 8  
 Packing Group II

**MEX**

UN/ID No UN1760  
 Proper Shipping Name Corrosive liquid, n.o.s. (Sodium hydroxide, Hydrogen chloride)  
 Hazard class 8  
 Packing Group II

**IATA**

UN number UN1760  
 Proper Shipping Name Corrosive liquid, n.o.s. (Sodium hydroxide, Hydrogen chloride)  
 Transport hazard class(es) 8  
 Packing Group II

**IMDG**

UN number UN1760  
 Proper Shipping Name Corrosive liquid, n.o.s. (Sodium hydroxide, Hydrogen chloride)  
 Transport hazard class(es) 8  
 Packing Group II

<b>15. REGULATORY INFORMATION</b>
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**REGULATORY INFORMATION****International Regulations**

Ozone-depleting substances (ODS) Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

**International Inventories**

Chemical name	TSCA	DSL/NDL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sodium hydroxide	X	X	X	X	X	X	X	X
Hydrogen chloride	X	X	X	X	X	X	X	X

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b><u>NFPA</u></b>	<b>Health Hazards</b> Not determined	<b>Flammability</b> Not determined	<b>Instability</b> Not determined	<b>Special Hazards</b> Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b> Not determined	<b>Flammability</b> Not determined	<b>Physical hazards</b> Not determined	<b>Personal Protection</b> Not determined

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value
*	Skin designation

**Revision Date:** 16-Apr-2021

**Revision Note:** New format.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**