SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CymoGen Dx, LLC
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FOR EMERGENCY SOURCE INFORMATION
CONTACT: 877.550.4020/949.812.6902
www.cymogendx.com

PRODUCT NAME: FFPE Pre-Treatment Kit (Pepsin)
PRODUCT NO: CYMO-PK-050ML

SECTION 2 – HAZARDOUS COMPONENTS

THE HAZARDS IDENTIFIED WITH THIS MULTIPLE COMPONENT REAGENT ARE THOSE ASSOCIATED WITH THE FOLLOWING INGREDIENTS:

SPECIFIC HAZARDOUS COMPONENTS PERCENT/ CAS #

Pepsin A 0.04% (weight/volume) / 9001-75-6

Emergency Overview

OSHA Hazards
Skin and respiratory sensitizer, Irritant

GHS Classification
Skin irritation (Category 2)
Eye irritation (Category 2A)
Respiratory sensitization (Category 1)
Skin sensitization (Category 1)
Specific target organ toxicity - single exposure (Category 3)

GHS Label elements, including precautionary statements

Pictogram
Signal word Danger

Hazard statement(s)
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
Precautionary statement(s)
P261    Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280    Wear protective gloves.
P305+P351+P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342+P311  If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

HMIS Classification
Health hazard: 3
Chronic Health Hazard: No data.
Flammability: 0
Physical hazards: 0

NFPA Rating
Health hazard: 3
Fire: 0
Reactivity Hazard: 0

Potential Health Effects
Inhalation May be harmful if inhaled. Causes respiratory tract irritation.
Skin May be harmful if absorbed through skin. Causes skin irritation.
Eyes Causes eye irritation.
Ingestion May be harmful if swallowed.

SECTION 3 – COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Characterization: Mixture of substance(s) listed below with non-hazardous additions.

No other components.

SECTION 4 – FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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**SECTION 5 - FIRE FIGHTING MEASURES**

**Conditions of flammability**
Not flammable or combustible.

**Suitable extinguishing media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**
Wear self-contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**
Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

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**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Personal precautions**
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions**
Do not let product enter drains.

**Methods and materials for containment and cleaning up**
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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**SECTION 7 – HANDLING AND STORAGE**

**Precautions for safe handling**
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: -20 °C
Keep in a dry place.

SECTION 8 – EXPOSURE CONTROLS AND PPE

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Immersion protection
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: > 480 min
Material tested: Dermatril® (Aldrich Z677272, Size M)

Splash protection
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: > 30 min
Material tested: Dermatril® (Aldrich Z677272, Size M)
data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Material Safety Data Sheet

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Skin and body protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance: powder, lyophilized
Color: No data
pH: Not determined.
Melting point/freezing point: Not determined.
Boiling point: Not determined.
Flash point: Not determined.
Ignition temperature: Not determined.
Auto ignition temperature: Not determined.
Lower explosion limit: Not determined.
Vapor pressure: Not determined.
Density: Not determined.
Water solubility: Not determined.
Partition coefficient: Not determined.
n-octanol/water: Not determined.
Relative vapor density: Not determined.
Odor: Not determined.
Odor Threshold: Not determined.
Evaporation Rate: Not determined.

SECTION 10 - STABILITY AND REACTIVITY DATA

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
No data available.

Conditions to avoid
No data available.

Materials to avoid
Incompatible with: Alcohol, Alkalis, tannins, Heavy metal salts
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.
Other decomposition products - no data available

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity
Oral LD₅₀
No data available.

Inhalation LC₅₀
Dermal LD₅₀
No data available.

Other information on acute toxicity
No data available.

Skin corrosion/irritation
No data available.

Serious eye damage/eye irritation
No data available.

Respiratory or skin sensitization
May cause allergic respiratory and skin reactions

Germ cell mutagenicity
No data available.

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available.

Teratogenicity
No data available.
Material Safety Data Sheet

PRODUCT NAME: FFPE Pre-Treatment Kit (Pepsin)  

Specific target organ toxicity - single exposure (Globally Harmonized System)
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)
No data available.

Aspiration hazard
No data available.

Potential health effects
Inhalation    May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion    May be harmful if swallowed.
Skin    May be harmful if absorbed through skin. Causes skin irritation.
Eyes    Causes eye irritation.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects
No data available.

Additional Information
RTECS: SC6132000

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity
No data available.

Persistence and degradability
No data available.

Bioaccumulative potential
No data available.

Mobility in soil
No data available.

PBT and vPvB assessment
No data available.

Other adverse effects
No data available.
SECTION 13 – DISPOSAL

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

SECTION 14 – TRANSPORT

DOT (US)
Not dangerous goods.

IMDG
Not dangerous goods.

IATA
Not dangerous goods.

SECTION 15 - REGULATORY INFORMATION

OSHA Hazards
Skin and respiratory sensitizer, Irritant

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components
Pepsin A, CAS-No. 9001-75-6

New Jersey Right To Know Components
Pepsin A, CAS-No. 9001-75-6

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 – ADDITIONAL INFORMATION

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. CymoGen Dx, LLC shall not be held liable for any damage resulting from handling or from contact with this product.