

SAFETY DATA SHEET

Section 1: Identification

Product Identifier: Myeloperoxidase (MPO) Peroxidation Activity Fluorometric Assay Kit (#MAES0004)

Relevant Identified Uses of Substance or Mixture and Uses Advised Against:

Recommended Use: For Research Use Only

Uses Advised against: No information

Company:

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Section 2: Hazard(s) Identification

2.1 GHS Classification

Skin Corrosion/Irritation - Category 2

Eye Irritation - Category 2A

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Signal Word: Warning

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary Statements

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

P280 Wear protective gloves/ eye protection/ face protection.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container to an approved waste plant.

2.3 Other hazards: none.



Section 3: Composition/ Information on Ingredients

Items	Component	Physical form	Hazardous Ingredient	Concentration	CAS No.
Reagent 1	Buffer	Odorless and	No hazards	-	-

	Solution	colorless, liquid			
Reagent 2	Probe	Odorless and reddish, liquid	Dimethyl sulfoxide (DMSO)	0.06%	67-68-5
Reagent 3	Substrate	Odorless and colorless, liquid	No hazards	-	-
Reagent 4	Inhibitor	Odorless and colorless, liquid	No hazards	-	-
Reagent 5	25 µmol/L Resorufin Standard	Odorless and fuchsia, liquid	No hazards	-	-

Section 4: First-Aid Measures

4.1 General advice

- Consult a physician. Show this safety data sheet to the doctor in attendance.

4.2 If inhaled

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

4.3 In case of skin contact

- Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

4.4 In case of eye contact

- Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

4.5 If swallowed

- Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5: Fire-Fighting Measures

5.1 Suitable extinguishing media

- **Suitable:** Water spray, alcohol-resistant foam, dry chemical, carbon dioxide or appropriate foam.

5.2 Special precautions for fire-fighters

- **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

5.3 Special hazards arising from the substance or mixture

- Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride gas.

Section 6: Accidental Release Measures

6.1 Person-related safety precautions

- Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition.

6.2 Measures for environmental protection

- Prevent further leakage or spillage if safe to do so. Do not let enter drains. Discharge into the environment must be avoided.

6.3 Measures for containment and cleaning

- Contain spillage, and then collect with non-combustible absorbent material. Place in a container for disposal according to local regulations.

Section 7: Handling and Storage

7.1 Handling

- Wear appropriate protective clothing and safety gloves. Avoid inhalation. Avoid contact with eyes, skin and clothing. Mechanical exhaust required. Keep away from ignition sources, heat and flame. No smoking at working site.

7.2 Storage

- Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame.

Section 8: Exposure Controls/Personal Protection

8.1 Engineering Controls

- Mechanical exhaust required. Safety shower and eye bath.

8.2 Personal Protective Equipment

- **Respiratory:** Government approved respirator if needed.
- **Eye/face:** Chemical safety goggles if needed.
- **Clothing:** Wear appropriate protective clothing.
- **Hand/skin:** Protective gloves.
- **Body protection:** Wear suitable protective clothing according to the concentration and amount of the substance at the workplace.

8.3 Other Protect

- No smoking, drinking and eating at working site. Wash thoroughly after handling.

Section 9: Physical and Chemical Properties

- a) Physical state clear, liquid
- b) Color clear
- c) Odor odorless
- **d) Melting point/freezing point:** 16-19 °C
- **e) Initial boiling point and boiling range:** 189 °C
- h) Flash point 87 °C-closed cup-ASTM D 93
- **i) Autoignition temperature:** 300-302 °C at 1,013 hPa
- m) Water solubility completely miscible
- p) Density 1.1 g/mL

Section 10: Stability and Reactivity

10.1 Reactivity

- No data available

10.2 Chemical stability

- Stable under recommended storage conditions

10.4 Conditions to avoid

- Heat, flames and sparks

10.5 Incompatible materials

- Strong oxidizing agent, Light sensitive, Alcohols, Organic materials, Heavy metals, Powdered metals, Strong reducing agents, Amines, Mercaptans.

10.6 Hazardous decomposition products

- **Hazardous decomposition products formed under fire conditions:** Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride gas.

Section 11: Toxicological Information

- Acute toxicity
- LD50 Oral-Rat-male and female-28,300 mg/kg (OECD Test Guideline 401)
- LD50 Dermal-Rat-male and female-40,000 mg/kg
- **Skin corrosion/irritation:** Skin-Rabbit Result: slight irritation-4 h (OECD Test Guideline 404)
- **Serious eye damage/eye irritation:** Eyes-Rabbit Result: slight irritation-24 h (OECD Test Guideline 405)
- **Respiratory or skin sensitization:** Maximization Test-Guinea pig Result: negative (OECD Test Guideline 406)

Section 12: Ecological Information

12.1 Toxicity

- Toxicity to fish static test LC50-Danio rerio (zebra fish)-> 25,000 mg/l-96 h (OECD Test Guideline 203)

12.2 Persistence and degradability

- **Biodegradability aerobic-Exposure time 28 d Result:** 31 %-Not readily biodegradable.

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: No data available

Section 13: Disposal Considerations

13.1 Disposal methods

- Dispose of waste in accordance to applicable national, regional, or local regulations.

13.2 Contaminated packaging

- Dispose in the same manner as unused product.

Section 14: Transport Information

- **RID/ADR:** Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.
- **IATA:** Non-Hazardous for Air Transport.
- **IMO:** Non-Hazardous for Sea Transport.

Section 15: Regulatory Information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008 and its amendments.

Section 16: Other Information

IMPORTANT! Read the safety data sheets before the use and disposal of this product.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as guide.

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for

experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislation. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

Last reviewed: 07/2026

Disclaimer

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End Of MSDS