

## SAFETY DATA SHEET

Version 5.1  
Revision Date 08/29/2014  
Print Date 03/04/2015

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**1. PRODUCT AND COMPANY IDENTIFICATION****1.1 Product identifiers**

Product name : Peroxidase (Myeloperoxidase) Leukocyte Kit  
Product Number : 391A  
Brand : Sigma

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

Identified uses : Laboratory chemicals, Manufacture of substances

**1.3 Details of the supplier of the safety data sheet**

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA  
Telephone : +1 800-325-5832  
Fax : +1 800-325-5052

**1.4 Emergency telephone number**

Emergency Phone # : (314) 776-6555

This is a summary MSDS for a kit, for the full MSDS for each of the components listed in section 16 please visit our website.

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**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Flammable liquids (Category 2), H225  
Oxidizing liquids (Category 2), H272  
Acute toxicity, Oral (Category 4), H302  
Acute toxicity, Inhalation (Category 4), H332  
Acute toxicity, Dermal (Category 4), H312  
Skin corrosion (Category 1A), H314  
Serious eye damage (Category 1), H318  
Respiratory sensitisation (Category 1), H334  
Skin sensitisation (Category 1), H317  
Germ cell mutagenicity (Category 2), H341  
Carcinogenicity (Category 1B), H350  
Reproductive toxicity (Category 1B), H360  
Specific target organ toxicity - single exposure (Category 1), H370  
Acute aquatic toxicity (Category 1), H400  
Chronic aquatic toxicity (Category 1), H410

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

**2.2 GHS Label elements, including precautionary statements**

Pictogram



Signal word

Danger

Hazard statement(s)	
H225	Highly flammable liquid and vapour.
H272	May intensify fire; oxidiser.
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H370	Causes damage to organs.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P220	Keep/Store away from clothing/ combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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 or doctor/ physician.
P322	Specific measures (see supplemental first aid instructions on this label).
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Refer to component MSDS

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## 4. FIRST AID MEASURES

Refer to component MSDS

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## 5. FIREFIGHTING MEASURES

Refer to component MSDS

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## 6. ACCIDENTAL RELEASE MEASURES

Refer to component MSDS

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 - 8 °C

Store under inert gas. Air, light, and moisture sensitive. Heat sensitive.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Refer to component MSDS

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Refer to component MSDS

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## 10. STABILITY AND REACTIVITY

Refer to component MSDS

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## 11. TOXICOLOGICAL INFORMATION

Refer to component MSDS

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## 12. ECOLOGICAL INFORMATION

Refer to component MSDS

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## 13. DISPOSAL CONSIDERATIONS

Refer to component MSDS

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## 14. TRANSPORT INFORMATION

### DOT (US)

UN number: 3316      Class: 9      Packing group: II

Proper shipping name: Chemical kits

Marine pollutant: No

Poison Inhalation Hazard: No

### IMDG

UN number: 3316      Class: 9      Packing group: II      EMS-No: F-A, S-P

Proper shipping name: CHEMICAL KIT

Marine pollutant: No

### IATA

UN number: 3316      Class: 9      Packing group: II

Proper shipping name: Chemical kit

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## 15. REGULATORY INFORMATION

### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

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## 16. OTHER INFORMATION

### Kit Components:

Diaminobenzidine	SIGMA	3911	Muta. 2; Carc. 1B; H341, H350
Copper(II) nitrate trihydrate	SIGMA	3912	Ox. Sol. 2; Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H272, H302, H315, H318, H410
Trizma® concentrate	SIGMA	3913	Skin Irrit. 2; Eye Irrit. 2A; H315, H319
Glutaraldehyde solution	SIAL	3802	Skin Irrit. 2; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; Repr. 2; Aquatic Acute 2; Aquatic Chronic 3; H315, H317, H318, H334, H361, H401, H412
HEMATOXYLIN SOLUTION GILL NO 3	SIGMA	GHS3	Acute Tox. 4; Skin Corr. 1A; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; H302, H314, H317, H334
PAPANICOLAOU STAIN, GILL EA	SIGMA	3915	Flam. Liq. 2; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 1; H225, H302 + H312 + H332, H315, H319, H370
Scott's Tap Water Substitute Concentrate	SIGMA	S5134	

### HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	2

### NFPA Rating

Health hazard:	4
Fire Hazard:	3
Reactivity Hazard:	0

### Further information

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### Preparation Information

Sigma-Aldrich Corporation  
Product Safety – Americas Region  
1-800-521-8956

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