

## Safety Data Sheet [according to Regulation (EC) No. 1907/2006]




Version number: 5.0

Revision date: 13-MAY-2015 (supersedes all previous MSDS or SDS documents provided for this product).

### SECTION 1 - Identification of the substance/mixture and of the company/undertaking

1.1	<b>Product Identifiers</b> Product Name: PrepStain™ EA OG Combo Stain Product Code: 490536b; 490537b
1.2	<b>Relevant identified uses of the substance or mixture and uses advised against</b> Relevant Identified Uses: In-vitro diagnostics preparation.
1.3	<b>Details of the supplier of the safety data sheet</b> Company: Source BioScience plc 1 Orchard Place Nottingham Business Park Nottingham, NG8 6PX Tel: +44(0)115 973 9018 Fax: +44(0)115 973 9021 E-mail: <a href="mailto:sales@sourcebioscience.com">sales@sourcebioscience.com</a>
1.4	490537b Emergency Telephone Number: +44(0)115 973 9018 Opening hours 08:00 – 18:00 GMT Monday to Friday English language service ONLY.

### SECTION 2 - Hazards identification

2.1	<b>Classification of the substance or mixture</b> Classification according to Regulation (EC) No 1272/2008 using the calculation procedure: Flammable liquids (Category 2), H225 Specific Target Organ Toxicity Single Exposure (Category 1), H370 Acute Toxicity (Dermal – Category 4), H312 Acute Toxicity (Inhalation – Category 4), H332 For the full text of the H-Statements mentioned in this Section, see Section 16.  Classification according to Directives 67/548/EEC or 1999/45/EC: F – Highly flammable, R11 T – Toxic, R23/24/25; 39/23/24/25 X <sub>n</sub> – Harmful, R40  For the full text of the H statements and R-phrases mentioned in this Section, see Section 16.	
2.2	<b>Label elements</b> Label according Regulation (EC) No 1272/2008: Hazard pictograms: <div style="display: flex; justify-content: center; align-items: center; gap: 10px;">    </div> Signal word: Danger	
	Hazard statements:    Precautionary statements:	H225 Highly flammable liquid and vapour. H370 Causes damage to organs. H312 Harmful in contact with skin. H332 Harmful if inhaled.  P210 Keep away from heat/sparks/open flames/hot surfaces - No smoking. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P403+P235 Store in a well ventilated place. Keep cool and container tightly closed. +P233

	P304+P312 P303+P361 +P352 P501	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of water. Dispose of contents/container via a licenced waste contractor.
	Supplemental hazard statements:	None.

2.3	<b>Other hazards</b>	None.
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### SECTION 3 - Composition/information on ingredients

3.2	<b>Mixtures</b>			
	Name	CAS	REACH Registration No.	% v/v
	Ethanol	64-17-	01-2119457610-43-XXXX	69.7
	Methanol	67-56-	01-2119392409-28-XXXX	25
	Acetic acid	64-19-	01-2119475328-30-XXXX	2

### SECTION 4 - First aid measures

4.1	<b>Description of first aid measures</b> General notes:  After skin contact: After eye contact:  After ingestion:  After inhalation:	Consult a physician. Show this safety data sheet to the doctor in attendance. Wash off with soap and plenty of water and SEEK MEDICAL ADVICE. Rinse with water for at least 15 minutes and then SEEK MEDICAL ADVICE. Do NOT induce vomiting. Wash mouth thoroughly with water and SEEK MEDICAL ADVICE. Move person into fresh air. If not breathing, give artificial
4.2	<b>Most important symptoms and effects, both acute and delayed</b> Effects as described in section 2.2.	
4.3	<b>Indication of any immediate medical attention and special treatment needed</b> No data available.	

### SECTION 5 - Fire fighting measures

5.1	<b>Extinguishing media</b> Suitable extinguishing media: Unsuitable extinguishing media:	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. Standard water based foam or water.
5.2	<b>Special hazards arising from the substance or mixture product</b> Hazardous combustion products: Carbon oxides.	
5.3	<b>Advice for fire-fighters</b> Wear self-contained breathing apparatus.	

### SECTION 6 - Accidental release measures

6.1	<b>Personal precautions, protective equipment and emergency procedures</b> Use personal protective equipment – see section 8. For large spillages evacuate area and prevent access to spillage area during clean up. Remove sources of ignition. Potential for vapours to accumulate to produce an explosive atmosphere. Vapour can accumulate at low level.
6.2	<b>Environmental precautions</b> Prevent product from entering surface or ground water drains.

6.3	<b>Methods and materials for containment and cleaning up</b> Soak up with inert absorbent material and dispose of as hazardous waste. Clean site of spillage with water and detergent. Where appropriate use signage to indicate wet surface / a slip hazard.	
6.4	<b>Reference to other sections</b> Refer to sections 8 and 13.	
<b>SECTION 7 - Handling and storage</b>		
7.1	<b>Precautions for safe handling</b> Measures to prevent fire:  Measures to prevent aerosol and dust generation: Measures to protect the environment: Advice on general occupational health:	Do not use in close proximity to naked flame, hot surface and other potential sources of ignition. Use in a well ventilated area. Prevent entry to surface drains and ground water. Do not eat, drink or smoke whilst handling this product. Remove any contaminated clothing or protective equipment before leaving the work area. Wash hands after use.
7.2	<b>Conditions for safe storage</b> Store in a cool place away from potential sources of ignition and incompatible materials (see section 10).	
<b>SECTION 8 - Exposure controls/personal protection</b>		
8.1	<b>Control parameters</b> The following occupational exposure limit values exist for substances contained in this product according to EH40/2005 Workplace Exposure Limits (UK). Ethanol – LTEL 1000ppm / 1920mg.m <sup>-3</sup> Methanol – LTEL 200ppm / 266mg.m <sup>-3</sup> ; STEL 250ppm / 333mg.m <sup>-3</sup> ; Sk	
8.2	<b>Exposure controls</b> Appropriate engineering controls:  Personal protective equipment:  Environmental exposure controls:	Control inhalation risk with local exhaust ventilation (LEV) appropriate for the volume being handled. When handling large volumes wear eye protection conforming to EN 166. Use natural or nitrile rubber gloves conforming to EN 374 shown to be chemically resistant to categories A. Where inhalation risk is not adequately mitigated with LEV use respiratory protective equipment either a full face mask conforming to EN 136 or valve filtering half mask to EN405 or half mask to EN140. Use type A (brown; organic gases and vapours, boiling point above 65°C) type filter conforming to EN371. Where RPE is used a face fit test should be carried out. Refer to sections 6 and 13.
<b>SECTION 9 - Physical and chemical properties</b>		
9.1	<b>Information on basic physical and chemical properties</b>	
	a) Appearance	Dark green liquid
	b) Odour	Mild alcohol
	c) Odour threshold	No data available
	d) pH	5.1
	e) Melting point/freezing point	No data available
	f) Initial boiling point and boiling range	73°C
	g) Flash point	12°C
	h) Evaporation rate	No data available
	i) Flammability	Highly flammable
	j) Upper/lower flammability or explosive limits	LEL – 3.5%; UEL – 44%
	k) Vapour pressure	No data available
	l) Vapour density	No data available
	m) Relative density	0.826 g.cm <sup>-3</sup>
	n) Solubility(ies)	Not miscible or difficult to mix
	o) Partition coefficient (n-octanol/water)	No data available
	p) Auto-ignition temperature	425°C
	q) Decomposition temperature	No data available
	r) Viscosity	No data available
	s) Explosive properties	No data available
	t) Oxidising properties	No data available

## SECTION 10 - Stability and Reactivity

10.1	<b>Reactivity</b> Can react with oxidising agents.
10.2	<b>Chemical stability</b> Stable under normal conditions of storage and use.
10.3	<b>Possibility of hazardous reactions</b> Not data available.
10.4	<b>Conditions to avoid</b> Keep away from flames, hot surfaces and other sources of ignition. Storage with incompatible materials.
10.5	<b>Incompatible materials</b> Strong oxidising agents.
10.6	<b>Hazardous decomposition products</b> No data available.

## SECTION 11 - Toxicological information

11.1	<b>Information on toxicological effects</b> No test information available for this product. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.																				
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For Acetic acid: Acute Toxicity:	LD <sub>50</sub> Oral – rat – 3310 mg/kg LC <sub>50</sub> Inhalation – Mouse – 1 h – 5620 ppm LC <sub>50</sub> Inhalation – Rat - 4 h – 11.4 mg/l LD <sub>50</sub> Dermal – Rabbit – 1112 mg/kg
Skin corrosion/irritation:	Skin corrosive category 1A
Serious eye damage/irritation:	Based on the data available the classification criteria are not met.
Respiratory or skin sensitisation:	No data available.
Germ cell mutagenicity:	No data available.
Carcinogenicity:	Not identified as a probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity:	No data available.
STOT – single exposure:	No data available.
STOT – repeated exposure:	No data available.
Aspiration hazard:	No data available.

## SECTION 12 - Ecological information

12.1	<b>Toxicity</b> No test information available for this product.
	For Ethanol: Toxicity to fish mortality: LC <sub>50</sub> – Pimephales promelas (Fathead minnow) – 96 h – 14200mg/l Toxicity to daphnia and other aquatic invertebrates: EC <sub>50</sub> – Daphnia magna (Water flea) – 48h – 9268mg/l EC <sub>50</sub> – Daphnia magna (Water flea) – 24h – 10800mg/l Toxicity to algae: EC <sub>50</sub> – Chlorella vulgaris (fresh water algae) – 72 h – 275mg/l Toxicity to microorganisms: EC <sub>50</sub> – Photobacterium phosphoreum – 30 min – 34634mg/l EC <sub>50</sub> – Photobacterium phosphoreum – 5 min – 35470mg/l
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	For Acetic acid: Toxicity to fish mortality: LC <sub>50</sub> (semi-static test) – Oncorhynchus mykiss (Rainbow trout) – 96 h – >1000 mg/l Toxicity to daphnia and other aquatic invertebrates: EC <sub>50</sub> – Daphnia magna (Water flea) 48 h – >300.82 mg/l
12.2	<b>Persistence and Degradability</b> No data available.
12.3	<b>Bioaccumulative potential</b> No data available.
12.4	<b>Mobility in soil</b> No data available.
12.5	<b>Results of PBT and vPvB assessment</b> PBT/vPvB assessment is not available for this product as chemical safety assessment is not required/not conducted.
12.6	<b>Other adverse effects</b> No data available.

## SECTION 13 – Disposal considerations

13.1	<b>Waste treatment methods</b> Use a licensed waste disposal service to dispose of this material and any container washings. Wash out containers with water before reuse, recycling or disposal of container.
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**SECTION 14 - Transport information**

14.1	<b>UN Number</b>	1987
14.2	<b>UN proper shipping name</b>	Alcohols, N.O.S. (Ethanol, Methanol)
14.3	<b>Transport hazard class(es)</b>	3
14.4	<b>Packing group</b>	II
14.5	<b>Environmental hazards</b>	Not applicable.
14.6	<b>Special precautions for user</b>	Warning: Flammable liquids.

**SECTION 15 - Regulatory information**

15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> UK legislation: The Management of Health and Safety at work Regulations 1999 [SI 1999 No. 3242] (regulation 3) requires suitable and sufficient assessment of risks in the workplace. Assessment should include arrangements to so far as reasonably practical ensure the safe use, handling, storage and transport of this product. Waste product and packaging should be disposed of in accordance with the Environmental Protection Act 1990 [1990 Chapter 43].
15.2	<b>Chemical Safety Assessment</b> No chemical safety assessment has been carried out for this product.

**SECTION 16 - Other information**

Full text of H-Statements referred to under sections 2:	
H225	Highly flammable liquid and vapour.
H370	Causes damage to organs.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
Full text of R-phrases referred to under sections 2:	
R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R40	Limited evidence of a carcinogenic effect.
The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information is believed to be reliable and updated at Revision Date, and represents the best information currently available and known by Source BioScience. However, Source BioScience makes no guarantee or warranty, express or implied, with respect to such information and we assume no liability resulting from its use. The information related herein is based on proper handling and anticipated uses and is for the material without chemical additions or alterations. Users should make their own investigations to determine the suitability of the information for their particular purposes.	