

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Version: 2.2

Creation Date: 2006/01/01

Revision Date: 2019/01/29

1. Identification

Product identifier

Product name	VisPRO™ 5 Minutes Protein Stain Kit
Product number	VP01-125 / VP01-500 / VP05-125 / VP05-500
Recommended use	Biochemical reagent for research use only

Details of the supplier of the safety data sheet

Manufacture / Supplier	Energenisis Biomedical Co., Ltd.
Address	6F-3, No.21, Ln. 583, Ruiguang Rd., Neihu Dist. Taipei City 114, Taiwan
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2. Hazard(s) identification

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4	H302
Skin Corr. 1B	H314
Eye Dam. 1	H318
Repr. 2	H361
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictogram



Signal word

Warning

Hazard statements

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dusts or mists.

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P264	Wash hand thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor/...if you feel unwell.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340	IF INHALED: Remove person to fresh air and keep 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.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER/doctor.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

Substance/mixture		Mixture	
Component	Description	Content	
Solution 1	contains Imidazole	VP01-125: 125 mL VP01-500: 500 mL VP05-125: 125 mL VP05-500: 500 mL	
Solution 2	contains Zinc sulphate	VP01-125: 125 mL VP01-500: 500 mL VP05-125: 125 mL VP05-500: 500 mL	
CAS No. EC No. Index No.	Component Name Synonyms	1272/2008 (CLP)	Percent
288-32-4 206-019-2 —	Imidazole	Acute Tox. 4; H302 Skin Corr. 1B; H314 Repr. 2; H361	0.2-2 (VP01-125 / VP01-500) 1-10 (VP05-125 / VP05-500)
7446-20-0 231-793-3 —	Zinc sulphate	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0.2-2 (VP01-125 / VP01-500) 1-10 (VP05-125 / VP05-500)

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Additional information	For the full text of the H-Statements mentioned in this Section, see Section 16.
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4. First aid measures

Description of first aid measures	
Eye Contact	Flush eyes with water as a precaution
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Skin Contact	Wash off with soap and plenty of water.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.
Indication of any immediate medical attention and special treatment needed	No data available

5. Firefighting measures

Extinguishing media	
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	No data available
Advice for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and material for containment and cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Reference to other sections	For disposal see section 13.

7. Handling and storage

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.
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Conditions for safe storage, including any incompatibilities	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: Room temperature
Specific end use(s)	Apart from the uses mentioned in section 1 no other specific uses are stipulated.

8. Exposure controls/personal protection

Control parameters Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Component Name CAS No.	PEL-TWA	PEL-STEL	PEL-Ceiling	BEIs
Imidazole 288-32-4	10.6 mg/m ³	—	—	—

Exposure controls

Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment	
Eye protection	Wear chemical safety goggles. An eye wash station must be available where this product is used.
Skin and body protection	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Hand protection	Wear chemically resistant gloves, Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Have a safety shower available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Form: liquid Color: clear
Odour	Odorless
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Lower and upper explosive (flammable) limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available

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Solubility	No data available
Solubility in water	No data available
Partition coefficient: n-octanol/ water (log Kow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on toxicological effects	No data available			
Acute toxicity				
Component Name CAS No.	Result	Species	Dose	Exposure
Imidazole 288-32-4	LD50 Oral	Rat	970 mg/kg	—
Zinc sulphate 7446-20-0	LD50 Dermal LD50 Oral	Rat Rat	>2,000 mg/kg 1,260 mg/kg	24 h —
Skin corrosion/irritation				
Component Name CAS No.	Result	Species	Exposure	
Imidazole 288-32-4	Eyes - Moderate irritant Skin - Causes burns	Rabbit	standard Draize	
Zinc sulphate 7446-20-0	Eyes - Moderate irritant	Rabbit	420 ug (standard Draize)	
Serious eye damage/eye irritation	No data available			
Respiratory or skin sensitisation	No data available			
Germ cell mutagenicity	No data available			
Carcinogenicity	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.			
Reproductive toxicity	No data available			
Specific target organ toxicity - single exposure	No data available			

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Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	No data available

12. Ecological information

Toxicity

Component Name CAS No.	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Imidazole 288-32-4	Desmodesmus subspicatus EC50 130 mg/L (72h) Desmodesmus subspicatus EC50 82 mg/L (96 h)	Daphnia magna EC50 341.5 mg/L (48 h)	Leuciscus idus LC50 280 mg/L (48 h static)	Pseudomonas putida EC50 1200 mg/L (17 h) Photobacterium phosphoreum EC50 231 mg/L (30m)	-0.02
Zinc sulphate 7446-20-0	Desmodesmus subspicatus EC50 53 mg/L (72 h) Desmodesmus subspicatus EC50 30 - 100 mg/L (96 h) Pseudokirchneriella subcapitata EC50 3.59 – 15.6 mg/L (96 h) Pseudokirchneriella subcapitata EC50 117 mg/L (96 h)	Daphnia magna EC50 0.538 – 0.908 mg/L (48 h)	Pimephales promelas LC50 10.2 - 22.5 mg/L (96 h semi-static 1) Poecilia reticulata LC50 10.8 - 16.6 mg/L (96 h static 1) Poecilia reticulata LC50 13.5 - 18.3 mg/L (96 h semi-static 1) Pimephales promelas LC50 15 - 18.9 mg/L (96 h static 1) Pimephales promelas LC50 22.1 - 22.8 mg/L (96 h static 1) Lepomis macrochirus LC50 4.06 - 5.75 mg/L (96 h static 1) Lepomis macrochirus LC50 4.2 - 4.8 mg/L (96 h flow-through 1) Oncorhynchus mykiss LC50 4.3 - 8.5 mg/L (96 h static 1) Pimephales promelas LC50 5.8 - 7.5 mg/L (96 h static 1) Pimephales promelas LC50 6.2 - 9.6 mg/L (96 h 1) Pimephales promelas LC50 8 - 12.5 mg/L (96 h static 1) Brachydanio rerio LC50 9.9 - 20.1 mg/L (96 h semi-static 1)	—	1.6

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			<p>Cyprinus carpio LC50 1.31 mg/L (96 h semi- static 1)</p> <p>Oncorhynchus mykiss LC50 4.2 mg/L (96 h 1)</p> <p>Lepomis macrochirus LC50 4.5 mg/L (96 h 1)</p> <p>Oncorhynchus mykiss LC50 4.62 mg/L (96 h flow-through 1)</p> <p>Brachydanio rerio LC50 7.97 mg/L (96 h flow-through 1)</p>		
Persistence and degradability	No data available				
Bioaccumulative potential	No data available				
Mobility in soil	No data available				
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.				
Other adverse effects	No data available				

13. Disposal considerations

Waste treatment methods

Product	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.

14. Transport information

IATA / ADR / RID / IMDG	Classified as dangerous in the meaning of transport regulations.
UN number	—
UN proper shipping name	Not dangerous goods
Transport hazard class(es)	—
Packaging group	—
Environmental hazards	no
Special precautions for user	No data available

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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	No data available
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15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Chemical safety assessment	No data available

16. Other information

Abbreviations	
ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment, acute hazard
Aquatic Chronic	Hazardous to the aquatic environment, long-term hazard
BEIs	Biological exposure indices
Eye Dam.	Serious eye damage/eye irritation
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association-Dangerous Goods Regulations
CAS	Chemical Abstracts Service (division of the American Chemical Society)
OSHA	Occupational Health and Safety Administration
PEL	Permissible Exposure Limit
Repr.	Reproductive toxicity
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.	Skin corrosion/irritation
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
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