

SAFETY DATA SHEET



ProMTag Capture Resin

Version 1.1

Revised: October 31, 2019

SECTION 1. IDENTIFICATION

Product name ProMTag Capture Resin

Manufacturer or supplier's details

Company Impact Proteomics, LLC

Telephone (512) 815-2067

Responsible Department Impact Proteomics, LLC
1406 Browning Rd.
Pittsburgh PA USA
Tel: (512) 815-2067

Email address info@impactproteomics.com

Emergency telephone 1-800-255-3924
ChemTel Chemical Emergency Response Hotline

Recommended use of the chemical and restriction on use

Recommended use Laboratory chemicals

SECTION 2. HAZARDS IDENTIFICATION

Classification according to regulation (EC)
No. 1272/2008 [CLP]

Flammable liquids Category 4
Skin irritation Category 2
Eye irritation Category 2B

GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H225 Highly flammable liquid and vapor
H315 + H320 Causes skin and eye irritation
H335 May cause respiratory irritation

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Precautionary statement(s)

P210	Keep away from heat. No smoking
P233	Keep container tightly closed
P240	Ground container and receiving equipment
P241	Use explosion-proof equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P261	Avoid breathing vapors/spray
S264	Wash hands well after handling
P271	Use in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/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.
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation occurs: Get medical advice/attention
P362+P364	Take off contaminated clothing and wash it before reuse
P370+PP378	In case of fire: Use appropriate media to extinguish
P403+P233	Store in a well-ventilated area. Keep container tightly closed
P405	Store locked up
P501	Dispose of contents/container in accordance with local regulations

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture	Mixture
Substance Name	ProMTag Capture Resin

<u>Component</u>	<u>CAS Number</u>	<u>Concentration</u>
Ethyl alcohol	64-17-5	50%

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SECTION 4. FIRST AID MEASURES

General advice	Show this material safety data sheet to the doctor in attendance
If inhaled	Move to fresh air. If symptoms persist, call a physician
In case of skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person
Most important symptoms and effects, both acute and delayed	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
Notes to physician	

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Flammable liquid. Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. Cool containers with water
Specific hazards during fire fighting	Emits toxic fumes (carbon oxides) under fire conditions. (See also Stability and Reactivity section). Vapors can travel to a source of ignition and flash back. Containers may explode in a fire. Cool containers from a distance using water spray. SENSITIVE TO STATIC DISCHARGE.
Hazardous combustion products	No hazardous combustion products are known
Specific extinguishing methods	In the event of fire and/or explosion do not breath fumes
Special protective equipment for fire-fighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Material can react violently with water (spattering and misting) and react with metals to produce flammable hydrogen gas.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.
Methods and materials for containment and cleaning up	Absorb neutralized spill with vermiculite or other inert absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.
Environmental precautions	Do not let product enter drains

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling	Use with adequate ventilation and grounding. Wash thoroughly after using. Keep container closed when not in use.
Conditions for safe storage, including any incompatibilities	Store in tightly closed, original containers in a cool, dry, well ventilated area. Store between 55-100°F for product stability. Do not store with strong oxidizing agents, strong acids, peroxides, aldehydes, halogens, ammonia, acid anhydrides or alkali metals.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with work place control parameters**

Ethyl Alcohol

Exposure limits	Basis	Entity
1000 ppm/ 1900 mg/m ³	REL	NIOSH
1000 ppm/ 1900 mg/m ³	PEL	PSHA
1000 ppm/ 1880 mg/m ³	STEL	ACGIH

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Exposure Controls

Occupational exposure controls: Ventilation and appropriate grounding of containers.

Personal protective equipment

Wear protective gloves and eye protection

Eye protection	Safety glasses
Skin and body protection	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals.
Hygiene measures	Keep away from food and drink. When using do not eat, drink, or smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear/colorless
Physical state	Liquid
Odor	Mild alcohol
Odor Threshold	Not available
pH	Not available
Melting point/range	Not available
Boiling point/range	78 °C to 80 °C
Flash point	24 °C: Closed cup
Evaporation rate	No data available
Flammability (solid gas)	Flammable liquid
Explosion limits	3.3-19%
Solubility in water	Completely soluble in water

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SECTION 10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions of use and storage
Chemical stability	When stored at room temperature the product is stable
Possibility of hazardous reactions	No known hazardous reactions
Conditions to avoid	Keep away from heat, flame, and sparks
Incompatible materials	Alkali metals, Ammonia, Oxidizing agents, peroxides
Hazardous decomposition products	Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity – oral exposure	LD50 Oral – rat – 7,060 mg/kg
Acute toxicity – dermal exposure	No data available
Acute toxicity – Inhalation	LC50 Inhalation – rat – 10 h – 20000 ppm
Irritation	No data available
Corrositivity	No data available
Sensitisation	No data available
Repeated dose toxicity	No data available
Carcinogenicity	IARC: No components 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: A3: Confirmed animal carcinogen with unknown relevance to humans (ethanol) 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 components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

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Mutagenicity No data available

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Specific Target Organ Toxicity from single exposure No data available

Specific Target Organ Toxicity from Repeated Exposure No data available

Aspiration hazard No data available

Additional toxicology information No data available

SECTION 12. Ecological Information

Toxicity Aquatic Vertebrate LC50 (96 hours): 13,000 mg/L Oncorhynchus mykiss (Rainbow Trout)

Persistence and degradability Data not available

Bioaccumulative potential Will not accumulate

Mobility in soil Data not available

Results of PBT and vPVB assessment No information available

Other adverse effects None known

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from residues/unused product Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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SECTION 14. TRANSPORT INFORMATION

Transportation by land – Department of Transportation (DOT, United States of America)

UN number	UN1170
UN proper shipping name	Ethanol solution
Transport hazard class	3
Packaging group	II

Transportation by air – International Air Transport Association (IATA)

UN number	UN1170
UN proper shipping name	Ethanol solution
Transport hazard class	3
Packaging group	II

SECTION 15. REGULATORY INFORMATION

Occupational Safety and Health Administration Hazards

Not listed

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 313 Toxic Release Inventory (TRI)

Listed: Ethyl Alcohol

California Proposition 65

Ethyl Alcohol (in alcoholic beverages)

**European Inventory of Existing Commercial Chemical Substances (EINECS),
European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)**

Not listed.

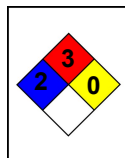
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National Fire Protection Association (NFPA) Rating

Health: 2
Flammability: 3
Reactivity: 0



SECTION 16. OTHER INFORMATION**Document Revision****Last Revision Date:** 10/31/2019**Full text of other abbreviations**

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods

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DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and Impact proteomics, LLC. assumes no legal responsibility or liability whatsoever resulting from its use.