SAFETY DATA SHEET

ProMTag IP-to-MS Protein A Resin

Version 1.1 Revised: March 7, 2024

SECTION 1. IDENTIFICATION

Product name	ProMTag IP-to-MS Protein A Resin

Manufacturer or supplier's details

Company	Impact Proteomics, LLC
Telephone	(412) 206-9735
Responsible Department	Impact Proteomics, LLC 1406 Browning Rd. Pittsburgh PA USA Tel: (412) 206-9735
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

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Classification of the substance or mixture

Flammable liquids	Category 3

GHS Label elements, including precautionary statements

Pictogram

Signal word	Warning
Hazard statement(s) H225	Highly flammable liquid and vapor

Precautionary statement(s)	
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
P264	Wash hands well after handling
P270	Do not eat, drink or smoke when using this product
P271	Use in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P303 + P361 + P353	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
P332+P313	If skin irritation occurs: Get medical advice/attention
P362+P364	Take off contaminated clothing and wash it before reuse
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
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 IP-to-MS Protein A Resin

Component	Classification	Concentration
ethanol CAS-No. 64-17-5	Flam. Liq. 3;	14-19%

SECTION 4. FIRST AID MEASURES

General advice	Show this material safety data sheet to the doctor in attendance.
If inhaled	After inhalation: fresh air. If breathing stops: mouth-to-mouth breathing or artificial
In case of skin contact	Wash off immediately with soap and 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	May cause mild irritation to areas of contact.
Notes to physician	Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water spray, foam, carbon dioxide or dry chemical powder
Unsuitable extinguishing media	Do not use water jets.
Hazards arising from the chemical	Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Specific extinguishing methods	Fire fighters should wear self-contained breathing apparatus and acid-resistant chemical splash unit to minimize risk of exposure. If safe to do so, remove undamaged containers from the path of fires. Cool containers with flooding quantities of water until well after fire is out.
Special protective equipment for fire-fighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

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. Shut off all ignition sources. No flares, smoking, or flames in hazard area.
Methods and materials for containment and cleaning up	Absorb with dry earth, sand or other non-combustible material. Neutralise with lime or soda ash. Use clean nonsparking tools to collect and seal in properly labelled drums for disposal in an area approved by local authority bylaws. Wash area down with excess water to remove residual material.
Environmental precautions	Do not let product enter drains

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling	Keep containers closed at all times - check regularly for leaks or spills. Transport and store upright. Use in a well ventilated area. Do not use in confined spaces. Build up of mists or vapors in the atmosphere must be prevented. Avoid breathing spray, mists or vapors. Do not use near welding or other ignition sources and avoid sparks. Avoid eye contact and repeated or prolonged skin contact. Do not eat, drink or smoke in contaminated areas. Always remove contaminated clothing and wash hands before eating, drinking, smoking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.
Conditions for safe storage, including any incompatibilities	Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with work place control parameters

ethanol CAS-No. 64-17-5

Exposure limits	Basis	Entity
1000 ppm 15 min	STEL	ACGIH TLV (United States, 1/2022). Notes: 1996 Adoption Refers to Appendix A -- Carcinogens.
1900 mg/m3 10 hours	TWA	NIOSH REL (United States, 10/2020).
1900 mg/m3 8 hours 1000 ppm 8 hour	TWA	OSHA PEL (United States, 5/2018).

Exposure Controls

Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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	White to yellowish
Physical state	Liquid
Odor	Alcohol-like
Odor Threshold	180 ppm
pH	5.5 to 8.5 [Conc. (%w/w): 100%]
Melting point/range	No data available
Boiling point/range	No data available
Flash point	Closed cup: 38-43 °C
Evaporation rate	No data available
Flammability (solid gas)	No data available
Explosion limits	No data available
Solubility in water	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	When stored at room temperature the product is stable.
Conditions to avoid	Avoid all possible sources of ignition.
Incompatible materials	Oxidizing materials
Hazardous decomposition products	In the event of fire: see section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity – oral exposure	No data available
Acute toxicity – dermal exposure	No data available
Acute toxicity – eye exposure	No data available
Acute toxicity – Inhalation	Inhalation LC50 (rat) 124,700 mg/m3/ 4 hours
Irritation	Repeated exposure may cause skin dryness or cracking.
Corrosivity	No data available
Sensitization	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. 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
Mutagenicity	No data available
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

SECTION 12. Ecological Information

No ecological information is available for this specific product, however toxicity data for the hazardous ingredient is listed below.

Toxicity (ethanol)	Acute EC50 3306 mg/l Marine water Algae - *Ulva pertusa* 96 hours Acute EC50 1074 mg/l Fresh water Crustaceans - *Cypris subglobosa* 48 hours Acute EC50 9.3 mg/l Fresh water Daphnia - *Daphnia magna* 48 hours Acute LC50 11000000 µg/l Marine water Fish - *Alburnus alburnus* 96 hours Chronic NOEC 4.995 mg/l Marine water Algae - *Ulva pertusa* 96 hours
Persistence and degradability	Considered to be readily biodegradable.
Bioaccumulative potential	Low
Mobility in soil	Data not available
Results of PBT and vPVB assessment	No information available
Other adverse effects	No information available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from residues/unused product	Empty containers should be forwarded to an approved agent for recycling. Avoid unauthorized discharge to sewer.

SECTION 14. TRANSPORT INFORMATION

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

Product is not regulated as dangerous goods for transport.

Transportation by air – International Air Transport Association (IATA)

Product is not regulated as dangerous goods for transport.

SECTION 15. REGULATORY INFORMATION

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312

Classification Flammable Liquids- Category 3 (ethanol)

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

SECTION 16. OTHER INFORMATION

Document Revision
Last Revision Date: 3/8/2024

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 Standardization; 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 Organization 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, Authorization 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

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.