

# SAFETY DATA SHEET



## ProMTag IP-to-MS Quencher

Version 1.1

Revised: March 8, 2024

### SECTION 1. IDENTIFICATION

Product name ProMTag IP-to-MS Quencher

#### 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](mailto: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 of the substance or mixture

Flammable liquids	Category 3
Acute toxicity, Oral	Category 4
Acute toxicity, Inhalation	Category 4
Acute toxicity, Dermal	Category 3
Skin corrosion	Category 1B
Serious eye damage	Category 1
Respiratory sensitization	Sub-category 1B
Skin sensitization	Sub-category 1B
Short-term (acute) aquatic hazard	Category 3
Long-term (chronic) aquatic hazard	Category 3

#### GHS Label elements, including precautionary statements

##### Pictogram



##### Signal word

Danger

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### Hazard statement(s)

H226	Flammable liquid and vapor.
H302 + H332	Harmful if swallowed or if inhaled.
H311	Toxic if in contact with skin.
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.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary statement(s)

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
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.
P261	Avoid breathing vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use in a well-ventilated area.
P273	Avoid release to the environment.
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.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.
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.

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

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture

Mixture

Substance Name

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<u>Component</u>	<u>Classification</u>	<u>Concentration</u>
ethylenediamine CAS-No. 107-15-3	Flam. Liq. 3; Acute Tox. 4; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Resp. Sens. 1B; Skin Sens. 1B; Aquatic Acute 3; Aquatic Chronic 3; H226, H302, H332, H311, H314, H318, H334, H317, H402, H412	$\geq 30$ - $< 40$ %

No other components need to be disclosed according to the applicable regulations

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**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. Call a physician immediately.
In case of eye contact	Remove contact lenses. Rinse thoroughly with plenty of water. Immediately call in ophthalmologist.
If swallowed	Make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.
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

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	Water, foam, carbon dioxide (CO <sub>2</sub> ), dry powder
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Specific hazards during firefighting	Carbon oxides, nitrogen oxides (NO <sub>x</sub> ), combustible. Fire may cause evolution of: nitrous gases, hydrogen cyanide (hydrocyanic acid), nitrogen oxides. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapors possible in the event of fire.
Special protective equipment for fire-fighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Further information	Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemisorb®). Dispose of properly. Clean up affected area.

Environmental precautions

Do not let product enter drains.

**SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Conditions for safe storage, including any incompatibilities

Do not use light-weight metal containers. Store in tightly closed, original containers in a cool, dry, well-ventilated area. Keep away from open flames, hot surfaces, and sources of ignition. Take precautionary measures against static discharge. Keep locked up or in an area only accessible to qualified persons. Storage class (TRGS 510): 3: Flammable liquids.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
ethylenediamine	107-15-3	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Remarks	Not classifiable as a human carcinogen. Danger of cutaneous absorption.	
		TWA	10 ppm 25 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	10 ppm 25 mg/m3	USA. NIOSH Recommended Exposure Limits
		PEL	10 ppm 25 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

#### Exposure Controls

Appropriate engineering controls: Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

#### Personal protective equipment

Wear protective gloves and eye protection

##### Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.

##### Skin and body protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: butyl-rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested: Butoject® (KCL 898) This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Splash contact Material: Chloroprene Minimum layer thickness: 0.65 mm Break through time: 240 min Material tested: KCL 720 Camapren®  
Footwear protecting against chemicals.  
Protective clothing.

##### Respiratory protection

Recommended Filter type: Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds

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Hygiene measures	Keep away from food and drink. When using do not eat, drink, or smoke.
Control of environmental exposure	Do not let product enter drains. Risk of explosion.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear/colorless
Physical state	Liquid
Odor	Amine-like
Odor Threshold	No data available
pH	No data available
Melting point/range	No data available
Boiling point/range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid gas)	No data available
Explosion limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Density	No data available
Partition coefficient	No data available
Solubility in water	No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	This product is chemically stable under standard ambient conditions.

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Possibility of hazardous reactions	Violent reactions possible with: acid halides, perchlorates, acrolein, halogenated hydrocarbon, acid chlorides, alcohols, aldehydes, phosphorus halides Exothermic reaction with: chlorosulfonic acid, Hydrogen chloride gas, acetic acid, Acetic anhydride, fuming sulfuric acid, Oxidizing agents, acryl aldehyde acids, carbon disulfide, silver perchlorate, vinyl acetate acrylic acid, 1-chloro-2,3-epoxypropane. Risk of explosion with: Nitromethane with Tetryl (N-Methyl-N-2,4,6-tetranitroaniline) nitric acid (conc.)
Conditions to avoid	Heating
Incompatible materials	No data available
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 – Inhalation	No data available
Skin irritation/corrosion	No data available, mixture causes burns
Serious eye damage/eye irritation	No data available, mixture causes serious eye damage
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



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Specific Target Organ Toxicity from Repeated Exposure	No data available
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Aspiration hazard	No data available
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Additional toxicology information	No data available
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### SECTION 12. Ecological Information

Toxicity	No data available
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Persistence and degradability	No data available
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Bioaccumulative potential	No data available
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Mobility in soil	No data available
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Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
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Other adverse effects	No data available
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### SECTION 13. DISPOSAL CONSIDERATIONS

Waste from residues/unused product	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
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### SECTION 14. TRANSPORT INFORMATION

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

UN number	1604
UN proper shipping name	Ethylenediamine
Transport hazard class	8 (3)
Packaging group	II
Reportable Quantity (RQ)	5000 lbs

#### Transportation by air – International Air Transport Association (IATA)

UN number	1604
UN proper shipping name	Ethylenediamine
Transport hazard class	8 (3)
Packaging group	II

### SECTION 15. REGULATORY INFORMATION

#### SARA 302 Components

ethylenediamine	CAS-No. 107-15-3	Revision Date 2007-07-01
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#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Massachusetts Right to Know Components

ethylenediamine	CAS-No. 107-15-3	Revision Date 2007-07-01
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#### California Proposition 65

No data available

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## SECTION 16. OTHER INFORMATION

## Document Revision

Last Revision Date: 3/8/24

## 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

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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.