

SAFETY DATA SHEET



Iodoacetamide

Version 1.1

Revised: March 8, 2024

SECTION 1. IDENTIFICATION

Product name Iodoacetamide

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

Classification of the substance or mixture

Acute toxicity, Oral	Category 3
Respiratory sensitization	Category 1
Skin sensitization	Category 4
Long-term (chronic) aquatic hazard	Category 4

GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H301	Toxic if swallowed.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H413	May cause long lasting harmful effects to aquatic life.

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Precautionary statement(s)

P261	Avoid breathing vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 + P330	IF SWALLOWED: Call a POISON CENTER/doctor immediately. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P341	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P363	Wash contaminated clothing before reuse.
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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture	Substance
Substance Name	Iodoacetamide

Component	Classification	Concentration
2-Iodoacetamide CAS-No. 144-48-9	Acute Tox. 3; Resp. Sens. 1; Skin Sens. 1; Aquatic Chronic 4; H301, H334, H317, H413	<= 100 %

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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. Call physician.
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. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.
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 ₂), dry powder
Specific hazards during firefighting	Carbon oxides, nitrogen oxides (NO _x), hydrogen iodide, combustible, 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 carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.
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. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
Conditions for safe storage, including any incompatibilities	Store in tightly closed, original containers in a cool, dry, well-ventilated area. Store locked up or in an area accessible only to qualified persons. Store between 2-8°C for product stability. Product is sensitive to light and moisture.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Ingredients with workplace control parameters

Contains no substances with occupation exposure limit values.

Exposure Controls

Appropriate engineering controls: Immediately change contaminated clothing. Apply preventative 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	Choose body protection according to the amount and concentration of the dangerous substance at the workplace. Footwear protecting against chemicals.
Respiratory protection	Required when dusts are generated.
Hygiene measures	Keep away from food and drink. When using do not eat, drink, or smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White
Physical state	Crystalline
Odor	No data available
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

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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	log Pow: 0.04 - Bioaccumulation is not expected.
Solubility in water	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Chemical stability	This product is chemically stable under standard ambient conditions.
Possibility of hazardous reactions	Violent reactions possible with: strong oxidizing agents.
Conditions to avoid	Exposure to light may affect product quality. No further information available.
Incompatible materials	No data available.
Hazardous decomposition products	In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity – oral exposure	LD50 Oral – Mouse- 74 g/kg
Acute toxicity – dermal exposure	No data available
Acute toxicity – Inhalation	No data available
Irritation	No data available

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Corrosivity	No data available
Sensitization	May cause allergic respiratory and skin reactions
Repeated dose toxicity	No data available
Carcinogenicity	<p>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.</p> <p>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.</p> <p>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</p>
Mutagenicity	<p>Test Type: Ames test</p> <p>Test system: Salmonella typhimurium</p> <p>Metabolic activation: with and without metabolic activation</p> <p>Result: negative</p> <p>Remarks: (Lit.)</p>
Specific Target Organ Toxicity from single exposure	No data available
Specific Target Organ Toxicity from Repeated Exposure	No data available
Aspiration hazard	RTECS: AC4200000 burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting
Additional toxicology information	No data available

SECTION 12. Ecological Information

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	Indication of bioaccumulation.
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
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	2811
UN proper shipping name	2-Iodoacetamide
Transport hazard class	6.1
Packaging group	III
Reportable Quantity (RQ)	

Transportation by air – International Air Transport Association (IATA)

UN number	2811
UN proper shipping name	2-Iodoacetamide
Transport hazard class	6.1
Packaging group	III

SECTION 15. REGULATORY INFORMATION

Occupational Safety and Health Administration Hazards

Not listed

SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Toxic Release Inventory (TRI)

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. SARA 31

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.