SAFETY DATA SHEET

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SECTION 1: COMPANY AND PRODUCT INFORMATION

1.1 Product identifiers

Product name : Iodoacetamide

Product code : 40950000

CAS number : 144-48-9

Synonyms : Not available

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, manufacture of substances

1.3 Details of the supplier of the safety data sheet

Address : Genelinx International Inc, dba bioWORLD
4150 Tuller Rd. Suite 228
Dublin, OH 43017

Email : tech@bio-world.com

Phone : 614-792-8680

1.4 Emergency telephone number

CHEMTREC USA : 1-800-424-9300
CHEMTREC International : +1-703-537-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Acute toxicity, Oral (Category 3), H301.
Respiratory sensitisation (Category 1), H334.
Skin sensitization (Category 1), H317.
Long-term (chronic) aquatic hazard (Category 4), H413

2.2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 3), H301.
Respiratory sensitisation (Category 1), H334.
Skin sensitisation (Category 1), H317.
Long-term (chronic) aquatic hazard (Category 4), H413

2.3 Label elements and 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
Precautionary statement(s)	:	P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves. P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth. P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

2.4 Hazards not otherwise classified (HNOC) or not covered by GHS

No unclassified hazards known.

2.5 NFPA Rating

Health hazard	:	1
Fire hazard	:	0
Reactivity hazard	:	0

2.6 HMIS Rating

Health hazard	:	1
Chronic health hazard	:	0
Reactivity hazard	:	0
Flammability	:	0
Physical hazard	:	0

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Substance	CAS#	EC#	Concentration
2-Iodoacetamide M.F: C_2H_4INO M.W: 184.96 g/mol	144-48-9	205-630-1	100%

3.2 Hazardous components & classification

Acute Tox. 3; Resp. Sens. 1; Skin Sens. 1; Aquatic Chronic 4; H301, H317, H334, H413.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

In case of inhalation

If inhaled, move person to fresh air and monitor breathing. If not breathing, give artificial ventilation. Consult a physician if symptoms are severe or persistent.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Flush eyes with water or eye wash solution as a precaution for 15 minutes. Consult a physician if symptoms are severe or persistent.

In case of ingestion

Only induce vomiting if recommended by medical personnel. If subject is unconscious, do not give anything by mouth. If conscious, rinse mouth with water. Consult a physician if symptoms are severe or persistent.

4.2 Most important symptoms and effects, both acute and delayed

All known important symptoms are described in Section 2 and/or Section 11. No other important symptoms to report.

4.3 Indication of any immediate medical attention and special treatment needed

No special treatment indicated. Provide treatment in accordance with exhibited systems.

SECTION 5: FIREFIGHTING MEASURES

5.1 Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical, and carbon dioxide are suitable

5.2 Unsuitable extinguishing media

Not available

5.3 Special hazards arising from the substance

Carbon oxides, Nitrogen oxides (NOx), Hydrogen iodide

5.4 Advice for firefighters

Wear protective gear, such as self-contained breathing apparatus, if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Use inert absorbent material to absorb any spilled or leaked product. Keep in suitable, closed containers for disposal.

For proper disposal see section 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Protect from light and moisture.

For precautions see section 2

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	:	Store in cool, well ventilated area. Keep container tightly closed. Light sensitive. Product is hygroscopic. Take precautions to avoid contact with atmospheric moisture. Store locked up. Storage temperature: 2-8°C. Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3/ toxic compounds or compounds which causing chronic effects.
Incompatible materials	:	Strong oxidizing agents are incompatible with this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Engineering controls

Use only in a chemical fume hood. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

8.3 Personal protective equipment

Eye/face protection	:	Avoid contact with eyes. Safety glasses with side-shields.
Skin protection	:	Wear protective gloves/clothing.
Body protection	:	Wear protective gloves/clothing.
Respiratory protection	:	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Control of environmental exposure	:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
General hygiene considerations	:	Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	:	Off-white to yellow
b)	Physical states	:	Crystalline Powder
c)	Odor	:	Not available
d)	Odor threshold	:	Not available
e)	Melting point	:	91.0-93.0 °C
f)	Boiling point range	:	Not available
g)	pH	:	Not available
h)	Density	:	Not available
i)	Flash point	:	Not available

j)	Evaporation rate	:	Not available
k)	Flammability	:	Not available
l)	Upper/lower flammability or explosive limits:	:	Not available
m)	Vapor pressure	:	Not available
n)	Vapor density	:	Not available
o)	Relative density	:	Not available
p)	Water solubility	:	Slightly soluble in water
q)	Partition coefficient:n-octanol/water	:	log Pow: 0.04
r)	Autoignition temperature	:	Not available
s)	Decomposition temperature	:	Not available
t)	Kinematic viscosity	:	Not available
u)	Explosive properties	:	Not available
v)	Oxidizing properties	:	Not available
w)	Solubility in other solvents	:	Not available
x)	Surface tension	:	Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No special reactivity is known. Non-reactive under normal use.

10.2 Chemical stability

Product is stable when stored as recommended.

10.3 Stability note(s)

No special or unusual instability known.

10.4 Polymerization

No known polymerization possible.

10.5 Possibility of hazardous reactions

No known hazardous reactions are possible.

10.6 Incompatible materials

Strong oxidizing agents are incompatible with this product.

10.7 Hazardous decomposition products

Carbon oxides, Nitrogen oxides (NOx), Hydrogen iodide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

LD50 Oral	:	Mouse - 74 mg/kg
LD50 Dermal	:	No toxicity data available.
LC50 Inhalation	:	No toxicity data available.

11.2 Skin corrosion/irritation

No skin/corrosion irritation data available.

11.3 Serious eye damage/eye irritation

No eye damage/irritation data available.

11.4 Respiratory or skin sensitization

No sensitization data available.

11.5 Germ cell mutagenicity

Ames test: Salmonella typhimurium - with and without metabolic activation - negative

11.6 Carcinogenicity

IARC	:	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.
ACGIH	:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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 component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

11.7 Reproductive toxicity

No reproductive toxicity data available.

11.8 Specific target organ toxicity – single exposure

No specific organ toxicity data available.

11.9 Specific target organ toxicity – repeated exposure

No specific organ toxicity data available.

11.10 Aspiration hazard

No aspiration hazard data available.

11.11 Additional Information

RTECS: AC4200000.
Symptoms include a burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Other dangerous properties cannot be excluded.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No ecological toxicity data available.

12.2 Aquatic toxicity

No aquatic toxicity data available.

12.3 Persistence and degradability

No persistence/degradability data available.

12.4 Bioaccumulative potential

No bioaccumulation data available.

12.5 Mobility in soil

No soil mobility data available.

12.6 Results of PBT and vPvB assessment

PBT/vPvB assessment Not available as chemical safety assessment not required/not conducted

12.7 Other adverse effect

No other adverse effect data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

13.2 Packaging

Dispose of as unused product.

13.3 Recommendation

Disposal must be made according to official regulations.

SECTION 14: TRANSPORTATION INFORMATION

14.1 DOT (US)

UN Number: 2811
UN Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (2-Iodoacetamide)
Hazard class: 6.1
Packaging group: III
Environmental hazards: No

14.2 IMDG

UN Number: 2811
UN Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (2-Iodoacetamide)
Hazard class: 6.1
Packaging group: III
Marine pollutant: No

14.3 IATA

UN Number: 2811
UN Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (2-Iodoacetamide)
Hazard class: 6.1
Packaging group: III
Environmental hazards: No

SECTION 15: REGULATORY INFORMATION

15.1 SARA

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
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.
SARA 311/312 Hazards: Acute Health Hazard

15.2 Clean water act (CWA)

No chemicals are present in this product that are subject to regulation under the Clean Water Act.

15.3 Right to know components

Massachusetts	:	No chemicals are present which require disclosure under the Massachusetts Right to Know Act.
Pennsylvania	:	No chemicals are present which require disclosure under the Pennsylvania Right to Know Act.
New Jersey	:	No chemicals are present which require disclosure under the New Jersey Right to Know Act.
California proposition 65 components	:	This product contains no chemicals which are known to the State of California to cause cancer, or birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION

16.1 Disclaimer

This product is offered by bioWORLD for research, laboratory or further manufacturing use. Not for human use or consumption. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant-ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall bio-WORLD.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect,incidental,consequential or exemplary damages, howsoever arising, even if bio-WORLD.com has been advised of the possibility of such damages.

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16.2 Preparation Information

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