

Safety Data Sheet (SDS)

GENERIC EU MSDS – NO COUNTRY SPECIFIC DATA – NO OEL DATA
According to Regulation (EC) No 1907/2006 (REACH)

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name: Hybridization Buffer

Product SKU: N/A

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

Use of the substance/mixture: Hybridization Buffer is used in Fluorescence In Situ Hybridization (FISH).

1.3 Details of the supplier of the safety data sheet

Company Name: Empire Genomics Corp.

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Depew NY 14043 USA

Telephone: +1 716 856 3873

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Email: info@empiregenomics.com

Internet: www.empiregenomics.com

1.4 Emergency telephone number

Telephone: +1 716 856 3873

9AM – 5PM (EST)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Category 2

Eye damage/irritation: Category 2

Reproductive toxicity: Category 1B

Carcinogenicity: Category 2

STOT – repeated exposure: Category 2

Hazard Statements:

May cause harm to unborn child.

Avoid contact with skin and eyes.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements**Labelling according to Regulation (EC) No. 1272/2008****Hazard pictograms:**

GHS07



GHS08

Signal Word:

Danger

Hazardous ingredients:

Formamide

Hazard statements:

H315 – Causes skin irritation

H319 – Causes eye irritation

H351 – Suspected of causing cancer

H360 – May damage the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements:

P201 – Obtain special instructions before use

P262 – Do not get in eyes, on skin, or on clothing

P280 – Wear protective gloves/protective clothing/eye protection/face protection

P301+P309+P310 – IF SWALLOWED, call a poison center or physician

P302+P352 – IF ON SKIN, wash with plenty of soap and water

P305+P338+P351 – IF IN EYES, rinse cautiously with water for several minutes
Remove contact lenses, if present and easy to do. Continue rinsing.

P313 – IF EXPOSED or concerned, get medical advice/attention

P501 – Dispose of contents/container to local/regional/nation/international regulation

2.3 Other hazards

No additional information available

3. Composition/information on ingredients

3.1 Substance

Not applicable

3.2 Mixture

Hazardous components

Name	CAS #	EC #	%	Classification
Formamide	75-12-7	200-842-0	50-71%	Skin irrit. – 2 Eye irrit – 2 Repr. – 1B Carc. – 2 STOT – 2

4. Composition/information on ingredients

4.1 Description of first aid measures

After inhalation

May cause irritation to the respiratory tract. Move person into fresh air and seek medical advice.

After contact with eyes

Flush with copious amounts of water for at least 15 minutes while keeping eyes open. Seek medical attention.

After contact with skin

May cause skin irritation. Wash with copious amounts of water and remove clothing that came into contact with the solutions. Seek medical attention. Wash clothing before wearing.

After ingestion

If person is conscious, give large amounts of water to drink. Seek medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

After contact with skin: Irritation

After contact with eyes: Irritation

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide, extinguishing powder, or water jet.

Fight larger fires with water jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

Product is not self-igniting.

Product is not explosive.

5.3 Advice for firefighters

Respiratory protection not normally required unless exposure limits for released components are exceeded. Keep breathing equipment ready.

6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

General measures

Wear chemical resistant safety goggles, gloves, and rubber boots.

Keep breathing equipment ready.

6.2 Environmental precautions

Do not allow to enter drainage system, surface, or ground water.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ventilate area and wash spill site after material pickup is complete.

6.4 Reference to other sections

Safe handling: See Section 7

Personal protection equipment: See Section 8

Disposal: See Section 13

7. Handling and storage

7.1 Precautions for safe handling

This product has not been viability tested. It should be treated as if it were infectious using the appropriate Good Laboratory Practice and experienced staff with appropriate training.

No special precautions necessary if used correctly.

Wear gloves when handling.

Avoid contact with skin and eyes, avoid inhalation or ingestion.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store at -20°C

Protect from heat and direct sunlight

7.3 Specific end use(s)

No additional information available.

8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits (EH40)

CAS No.	Substance	ppm	mg/m ³	Category	Origin
75-12-7	Formamide	20	37	TWA (8h)	WEL
75-12-7	Formamide	30	56	STEL (15 min)	WEL

8.2 Exposure controls

Appropriate engineering controls:	Ensure good ventilation of the workstation.
Protective and hygiene measures:	Keep away from foodstuffs, beverages, and food. Immediately remove contaminated clothing. Wash hands during breaks and at the end of the work. Store protective clothing separately.
Eye/face protection:	Safety glasses recommended.
Hand protection:	Protective gloves must be worn. The quality of the protective gloves must be chosen specific to the conditions of use. Gloves should be changed immediately after wetting.
Skin protection:	Use of suitable protective clothing.
Respiratory protection:	Not necessary, if room is well-ventilated. Take precautions if chemical concentrations exceed the exposure limits (if any) listed above.
Environmental exposure controls:	Avoid release to the environment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Color:	Colorless
Odor:	Odorless
pH:	7.0
Relative evaporation rate:	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available

Flash point:	Not applicable
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	Product is not self-igniting
Vapor pressure:	No data available
Relative vapor density at 20°C:	1.1 g/cm ³
Relative density:	No data available
Solubility:	Soluble
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
Explosive limits:	Product is not explosive

9.2 Other information

No additional information available.

10. Stability and Reactivity

10.1 Reactivity

This product is non-reactive under normal conditions of use, storage, and transport.

10.2 Chemical stability

This product is stable under recommended conditions of use, storage, and transport.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

None.

10.5 Incompatible materials

Avoid mixing with strong oxidizing and reducing agents and strong acids and bases.

Avoid excess heat and protect from light.

10.6 Hazardous decomposition products

No information available.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:	Not classified.
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CAS No.	Chemical Name	Exposure Route	Dose	Species
75-12-7	Formamide	Oral	LD50: >5800 mg/kg	Rat
75-12-7	Formamide	Dermal	LD50: >17000 mg/kg	Rabbit
75-12-7	Formamide	Inhalation	LC50: >3900 ppm	Rat

Irritation and corrosivity:	May cause skin and eye irritation.
Sensitizing effects:	No sensitizing effects known.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	May damage fertility or the unborn child.
STOT- single exposure:	Not classified.
STOT- repeated exposure:	Not classified.
Aspiration hazard:	Not classified.

12. Ecological information

12.1 Toxicity

Fish toxicity:	This product has not been tested.
Daphnia toxicity:	This product has not been tested.
Algae toxicity:	This product has not been tested.
Bacteria toxicity:	This product has not been tested.

12.2 Persistence and degradability

This product has not been tested.

12.3 Bioaccumulative potential

This product has not been tested.

12.4 Mobility in soil

This product has not been tested.

12.5 Results of PBT and vPvB assessment

This product has not been tested.

12.6 Other adverse effects

No additional information available.

13. Disposal considerations

13.1 Waste treatment methods

Disposal recommendations:	Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
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Dispose in accordance with local, regional, and national environmental regulations.

Contaminated packaging:

Non contaminated packaging can be used for recycling.

For disposal of contaminated packaging, please refer to applicable local regulations.

14. Transport information

In accordance with ADR/RID/IMDG/IATA/ADN

ADR	RID	IMDG	IATA	ADN
14.1 UN Number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2 UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4 Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

15. Regulatory information

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

REACH, annex XIV

Substances of very high concern (SVHC), REACH, article 59

Formamide (CAS No. 75-12-7)

REACH, annex XVII

Entry 3

Entry 30

Directive 2012/18/EU, annex I

None of the ingredients listed.

National regulatory information

United States

SARA 313 Components: Not listed

California Prop. 65: Not listed

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

16. Other information

Abbreviations and Acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

CAS: Chemical Abstracts Service

EC: Effect Concentration

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC: Lethal Concentration

PBT: persistent, bioaccumulative, toxic

REACH: Registration, Evaluation and Authorization of Chemicals

RID: Regulations concerning the international carriage of dangerous goods by rail

STOT: Specific target organ toxicity

vPvB: very persistent, very bioaccumulative

UN: United Nations

The information contained herein is believed to be correct at time of issue but may not be all-inclusive and should be used as a guide only. Further, it is recommended that the product be handled and used by appropriately trained personnel only. Empire Genomics Corp. shall not be held liable for any damage resulting from handling or from contact with the product.