



SAFETY DATA SHEET

Revision Date 6/28/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identification

Product Name : Buffer A
Product Code : Y-1040
CAS-No. : N/A; mixture

1.2 Company Identification

Peninsula Laboratories International, Inc.
305 Old County Road
San Carlos, CA 94070
USA

Telephone : (650) 801-6090
Fax : (650) 595-4071

Emergency : (650) 801-6090 (8:30am-5pm Pacific Time)

1.3 Recommended use and Restrictions on use

Laboratory reagent, Research Use Only


2. HAZARD(S) IDENTIFICATION

2.1 Classification of the mixture

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

Acute toxicity, Category 4, Inhalation, H332
Skin corrosion/irritation, Category 1A, H314
Serious eye damage/eye irritation, Category 1, H318

2.2 GHS Label elements, including precautionary statements

Hazard Pictogram : 

Signal Word : Danger

Hazard statements : H332 Harmful if inhaled.
H314 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements : P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P261 Avoid breathing dust, fume, gas, mist, vapors, spray.
P264 Wash exposed skin thoroughly after handling.
P271 Use only in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301/P330/P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
P302/P361/P353 If on skin or hair, Remove/take off all contaminated clothing.
Rinse skin with water/shower.



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P304/P340 If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305/P351/P338 If in eyes, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see first aid section).
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose contents/container to an approved waste disposal plant, in compliance with local, state and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Substance** : Not applicable

3.2 **Mixture** :

PRINCIPLE COMPONENTS	CONCENTRATION	CAS No	GHS-US CLASSIFICATION
Trifluoroacetic Acid HPLC Grade	1%	76-05-1	Acute Toxicity 4, H332 Skin corrosion 1A, H314 Serious eye damage 1, H318
Water	99%	7732-18-5	Not classified

4. FIRST-AID MEASURES

4.1 Description of First Aid Measures

General advice: First aider needs to protect himself.

Inhalation: Supply fresh air breathing. If not breathing, give artificial respiration. Give oxygen if necessary. Immediately consult a physician.

In case of skin contact: Immediately remove all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.

In case of eye contact: Rinse out with plenty of water for at least 15 minutes. Immediately call an ophthalmologist.

Ingestion: Make the victim drink water (two glasses at most), avoid vomiting (risk of perforation!). Call a physician immediately. Do not attempt to neutralize.

4.2 Important Symptoms/Effects, acute and delayed

Irritation and corrosion, nausea, vomiting, cough, shortness of breath, collapse. Risk of blindness.

4.3 Required treatment

Obtain medical assistance.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing agents

Suitable extinguishing agents: Use extinguishing measures appropriate to local circumstances.

Unsuitable extinguishing agents: No limitations of extinguishing agents are given.



5.2 Special hazards arising from the substance or mixture

Not combustible. Ambient fire may liberate hazardous vapors. Fire may cause evolution of hydrogen fluoride.

5.3 Advice for firefighters

Special Protective equipment: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapor/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Personal precautions, protective equipment, emergency procedures: Do not breathe vapors or aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

6.1.2 For emergency responders

Personal precautions, protective equipment, emergency procedures: Protective equipment, see section 8.

6.2 Environmental precautions: Do not empty into drains.

6.3 Methods and material for containment and cleanup: Cover drains. Collect, bind, and pump off spills. Take up with liquid absorbent material. Dispose of properly. Clean up affected area. Observe material safe storage and handling information (section 7) and stability and reactivity (section 10).

6.4 Disposal: Dispose in accordance with local regulation.

6.5 References to other sections

See Section 8 Exposure Controls and personal protection.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling and hygiene

Avoid contact with skin and eyes. Provide appropriate exhaust ventilation in work area to prevent vapor buildup. Work in a fume hood. Do not breathe substance /mixture. Avoid generation of vapors/aerosols. Wash hands and other exposed skin with mild soap and water before eating, drinking, or smoking and when leaving work. See precautions section 2.2

7.2 Conditions for safe storage, and incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Do not store in metal containers. Keep container closed when not in use, in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from uses listed in Section 1.3, no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



8.1 Exposure limits

Contains no substances with occupational exposure limit values.

8.2 Engineering measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Personal protective measures: Protective clothing should be selected for the specific workplace situation, depending upon concentration and quantity of the hazardous substance. The chemical resistance of the protective equipment should be inquired at the respective supplier.

Hygiene measures: Immediately change contaminated clothing. Apply skin protective barrier cream. Wash hands and face after working with substance.

Eye/face protection: Tightly fitting safety goggles.

Hand protection: Chemical-resistant, impervious gloves in compliance with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Other: Acid-resistant protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate, use a properly fitted air-purifying or air-fed respirator, complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other information: Do not eat, drink, or smoke during use.

Control of environmental exposure: Prevent further leakage and spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	: Liquid
Color	: colorless
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative vapor density at 20C	: No data available
Relative density	: No data available
Density	: No data available
Solubility	: Soluble in water
Log Pow	: No data available
Log Kow	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available



Oxidizing properties : No data available
Explosive limits : No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

See below

10.2 Chemical stability

Heat sensitive.

10.3 Possibility of hazardous reactions

Risk of explosion with lithium aluminum hydride

Exothermic reaction with alkalines

Generates dangerous gases or fumes in contact with acids

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Rubber, metals.

10.6 Hazardous decomposition products

In the event of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Likely route of exposure

Inhalation, eye contact, skin contact

Acute oral toxicity

Symptoms: nausea, vomiting, strong pain (risk of perforation). If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Acute inhalation toxicity

Corrosive to the respiratory system.

Absorption

Symptoms: mucosal irritations, cough, shortness of breath.

Possible damages: damage of the respiratory tract, inhalation may lead the formation of edemas in the respiratory tract.

Skin irritation

Rabbit

Result: causes burns. Necrosis causes poorly healing wounds. Causes severe burns.

Serious eye damage/irritation

Causes serious eye irritation. Risk of blindness.

Genotoxicity in vitro

Ames test

Salmonella typhimurium

Result: negative

(external SDS)



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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.

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

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/

Reproductive toxicity

No data available.

Specific target organ toxicity (single exposure)

No data available.

Specific target organ toxicity (repeated exposure)

No data available.

Aspiration hazard

No data available.

Further information

Systemic effects: collapse

Damage to kidney

Handle in accordance with good industrial hygiene and safety practice.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It is the users' responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. Peninsula Laboratories International, Inc. shall not be held liable for any damage resulting from the handling of the above product.