

Kit #190 Kitchen Chemistry

1. IDENTIFICATION

1.1 Product Identifiers

Product Name: Powder I
Alternative names: Sodium bicarbonate, Leavening agent, Baking soda.
Product Number: 190-1EA, A190-1, C190-1

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

Identified uses: For laboratory and educational use only

1.3 Details of the supplier of the safety data sheet

Company: LAB-AIDS®, Inc, 17 Colt Ct., Ronkonkoma, NY 11779, USA
Telephone: +1 800 381 8003.
Fax: +1 631 820 8268

1.4 Emergency telephone number: Emergency number: CHEMTREC 1 800 424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification

Not hazardous substance or mixture

2.2 Label elements, including precautionary statements

Signal word: Not classified
Hazards statements: Not classified
Precautionary statements: Not classified

Pictogram: Not classified

2.3 Hazards not otherwise classified: none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: Powder

3.2 Mixture: N/A

Chemical Name	Product identifier	%	GHS-US classification
Sodium bicarbonate	CAS#144-55-8	100%	Not classified

3.3 Chemicals where a trade secret is claimed: None

4. FIRST AID MEASURE

4.1 Description of the first aid measure:

INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if necessary.

INHALATION: Remove to fresh air. Get medical attention if necessary.

EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if necessary.

SKIN CONTACT: Flush thoroughly with mild soap and water. Remove contaminated clothing.

4.2 Most important symptoms and effects, both acute and delayed: Refer to section 11.

4.3 Indication of any immediate medical attention and special treatment needed: No additional information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Use TriClass, dry chemical extinguisher for surrounding fires.

5.2 Special hazard arising from the substance or mixture: Not available.

5.3 Advice for firefighters: Use self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear laboratory grade gloves, eye protection and a lab coat.

6.2 Emergency procedures: Restrict unprotected personnel from the area.

6.3 Methods and material used for containment and cleanup procedure: Sweep up or vacuum and place for disposal. Avoid formation of dust. Wash spill area with soap and water.

7. HANDLING AND STORAGE

7.1 Precaution for safe handling: Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. Avoid breathing dust. Use with adequate ventilation. Wash hands thoroughly after handling.

7.2 Storage: Keep container in cool, well-ventilated area.

7.3 incompatibility: Refer to section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: ACGIH: Not classified

8.2 Exposure controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.

Respiratory protection: Non should be needed if normal laboratory handling at room temperature.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.

Appearance: White powder.

Odor: Not available

pH: Not available

Vapor Pressure (mm Hg): Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: N/A

Flash point: N/A

Autoignition: N/A

Boiling point: N/A

Melting point: N/A

Freezing point: N/A

Decomposition temp: loses carbon dioxide at 270°C

Solubility: Soluble in water, insoluble in alcohol.

Specific gravity (H₂O = 1): 2.2g/cc

Percent volatile (%): N/A

Molecular formula: NaHCO₃

Molecular weight: 84.01

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Heat, moisture and incompatibles.

Incompatibilities: Reacts with acids to release carbon dioxide gas and heat.

Hazardous decomposition: Gaseous carbon dioxide.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute effects: Eyes: No data available. Skin: No data available. Inhalation: No data available. Ingestion: No data available.

Toxicological data

Acute oral toxicity ORAL LD₅₀: >5000 mg/kg [Rat]

Acute vapor toxicity IHL-LC₅₀: > 4.74 mg/L [Rat] 4.5h

DERMAL LD₅₀: Not available

Carcinogenicity:

California prop 65: Not classified

12. ECOLOGICAL INFORMATION

Does not bioaccumulate. Dissociates into ions. 48h LC₅₀: 2000mg/L Daphnia magna, 96h LC₅₀: 2000mg/L Rainbow Trout.

13. DISPOSAL CONSIDERATION

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

14. TRANSPORT INFORMATION

UN number: N/A

Shipping name: N/A

Hazard Class: N/A

Packing group: N/A

Exceptions: Ltd Qty. N/A

15. REGULATORY INFORMATION

TSCA-listed, EINECS-listed (205-633-8)

16. OTHER INFORMATION

Disclaimer:

The Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. LAB-AIDS® makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation and verification. The data should not be confused with local, state, federal regulations, or insurance mandates, and CONSTITUTE NO WARRANTY. Any use of these data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond LAB-AIDS, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

1. IDENTIFICATION

1.1 Product Identifiers

Product Name: Powder II
Alternative names: Corn Starch
Product Number: 190-2EA, A190-2, C190-2

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

Identified uses: For laboratory and educational use only

1.3 Details of the supplier of the safety data sheet

Company: LAB-AIDS®, Inc, 17 Colt Ct., Ronkonkoma, NY 11779, USA
Telephone: +1 800 381 8003.
Fax: +1 631 820 8268

1.4 Emergency telephone number: Emergency number: CHEMTREC 1 800 424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification

Not hazardous substance or mixture

2.2 Label elements, including precautionary statements

Signal word: Not classified
Hazards statements: Not classified
Precautionary statements: Not classified

Pictogram: Not classified

2.3 Hazards not otherwise classified: none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: Powder

3.2 Mixture: N/A

Chemical Name	Product identifier	%	GHS-US classification
Starch	CAS# 9005-25-8	100%	Not classified

3.3 Chemicals where a trade secret is claimed: None

4. FIRST AID MEASURE

4.1 Description of the first aid measure:

INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if necessary.

INHALATION: Remove to fresh air. Get medical attention if necessary.

EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if necessary.

SKIN CONTACT: Flush thoroughly with mild soap and water. Remove contaminated clothing.

4.2 Most important symptoms and effects, both acute and delayed: Refer to section 11.

4.3 Indication of any immediate medical attention and special treatment needed: No additional information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media: May be combustible in the presence of flame

Suitable extinguishing media: Use TriClass, dry chemical extinguisher for surrounding fires.

5.2 Special hazard arising from the substance or mixture: High concentration of dust in air in the presence of ignition source is a potential dust explosion hazard.

5.3 Advice for firefighters: Use self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear laboratory grade gloves, eye protection and a lab coat.

6.2 Emergency procedures: Restrict unprotected personnel from the area.

6.3 Methods and material used for containment and cleanup procedure: Sweep up and place for disposal. Avoid formation of dust. Wash spill area with soap and water.

7. HANDLING AND STORAGE

7.1 Precaution for safe handling: Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. Avoid breathing dust. Use with adequate ventilation. Wash hands thoroughly after handling.

7.2 Storage: Keep container in cool, well-ventilated area.

7.3 incompatibility: Refer to section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: ACGIH: Not classified.

8.2 Exposure controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.

Respiratory protection: Non should be needed if normal laboratory handling at room temperature.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.

Appearance: White powder.

Odor: Not available

pH: Not available

Vapor Pressure (mm Hg): Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: N/A

Flash point: N/A

Autoignition: N/A

Boiling point: Not available

Melting point: Not available

Freezing point: N/A

Decomposition temp: Not available

Solubility: Insoluble in water

Specific gravity (H₂O = 1): 1.5g/cm³

Percent volatile (%): Not available

Molecular formula: (C₆H₁₀O₅)_n

Molecular weight: Not available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Heat and incompatible materials

Incompatibilities: Oxidizing agents.

Hazardous decomposition: Not available.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute effects: Eyes: Dust may cause mechanical irritation to eyes. Skin: No data available. Inhalation: Excessive inhalation may cause minor respiratory irritation. Ingestion: Not data available.

Toxicological data

Acute oral toxicity ORAL LD₅₀: Not available

Acute vapor toxicity IHL-LC₅₀: Not available

DERMAL LD₅₀: Not available

Carcinogenicity:

California prop 65: Not classified

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATION

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

14. TRANSPORT INFORMATION

UN number: N/A

Shipping name: N/A

Hazard Class: N/A

Packing group: N/A

Exceptions: Ltd Qty. N/A

15. REGULATORY INFORMATION

TSCA-listed, EINECS-listed (232-679-6)

16. OTHER INFORMATION

Disclaimer:

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1. IDENTIFICATION

1.1 Product Identifiers

Product Name: Powder III
Alternative names: Baking powder mixture.
Product Number: 190-3EA, A190-3, C190-3

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

Identified uses: For laboratory and educational use only

1.3 Details of the supplier of the safety data sheet

Company: LAB-AIDS®, Inc, 17 Colt Ct., Ronkonkoma, NY 11779, USA
Telephone: +1 800 381 8003.
Fax: +1 631 820 8268

1.4 Emergency telephone number: Emergency number: CHEMTREC 1 800 424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification

Eye Irrit. (Category 2B) H320

2.2 Label elements, including precautionary statements

Signal word: Warning Pictogram: Not classified
Hazards statements: H320-Causes eye irritation.
Precautionary statements: P264 - Wash skin thoroughly after handling, P280 - Wear protective gloves, eye protection

2.3 Hazards not otherwise classified: none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: N/A

3.2 Mixture:

Chemical Name	Product identifier	%	GHS-US classification
Starch	CAS# 9005-25-8	*	Not classified
Sodium bicarbonate	CAS#144-55-8		Not classified
Calcium phosphate monobasic	CAS#7758-23-8		Eye Corr. 1, H318
Sodium pyrophosphate diabasic	CAS#7758-16-9		Eye Irrit. 2A, H319

3.3 Chemicals where a trade secret is claimed: Concentration of the mixture.

4. FIRST AID MEASURE

4.1 Description of the first aid measure:

INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if necessary.

INHALATION: Remove to fresh air. Get medical attention if necessary.

EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if necessary.

SKIN CONTACT: Flush thoroughly with mild soap and water. Remove contaminated clothing.

4.2 Most important symptoms and effects, both acute and delayed: Refer to section 11.

4.3 Indication of any immediate medical attention and special treatment needed: No additional information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media: May be combustible in the presence of flame

Suitable extinguishing media: Use TriClass, dry chemical extinguisher for surrounding fires.

5.2 Special hazard arising from the substance or mixture: High concentration of dust in air in the presence of ignition source is a potential dust explosion hazard.

5.3 Advice for firefighters: Use self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear laboratory grade gloves, eye protection and a lab coat.

6.2 Emergency procedures: Restrict unprotected personnel from the area.

6.3 Methods and material used for containment and cleanup procedure: Sweep up and place for disposal. Avoid formation of dust. Wash spill area with soap and water.

7. HANDLING AND STORAGE

7.1 Precaution for safe handling: Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. Avoid breathing dust. Use with adequate ventilation. Wash hands thoroughly after handling.

7.2 Storage: Keep container in cool, well-ventilated area.

7.3 incompatibility: Refer to section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: ACGIH: Not classified.

8.2 Exposure controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.

Respiratory protection: Non should be needed if normal laboratory handling at room temperature.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.

Appearance: White powder.

Odor: Not available

pH: Not available

Vapor Pressure (mm Hg): Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: N/A

Flash point: N/A

Autoignition: N/A

Boiling point: Not available

Melting point: Not available

Freezing point: N/A

Decomposition temp: Not available

Solubility: Insoluble in water

Specific gravity (H₂O = 1): Not available

Percent volatile (%): Not available

Molecular formula: Not available

Molecular weight: Not available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Heat, moisture and incompatibles.

Incompatibilities: Reacts with acids to release carbon dioxide gas and heat.

Hazardous decomposition: Gaseous carbon dioxide.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute effects: Eyes: Causes eye irritation. Skin: This product, when dry is generally non-irritating to intact skin. However when moisture is present it can be irritating to damaged skin. Inhalation: Excessive inhalation may cause minor respiratory irritation. Ingestion: No data available.

Toxicological data

Acute oral toxicity ORAL LD₅₀: >5000 mg/kg [Rat] (sodium bicarbonate)

Acute vapor toxicity IHL-LC₅₀: > 4.74 mg/L [Rat] 4.5h (sodium bicarbonate)

DERMAL LD₅₀: Not available

Carcinogenicity:

California prop 65: Not classified

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATION

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

14. TRANSPORT INFORMATION

UN number: N/A

Shipping name: N/A

Hazard Class: N/A

Packing group: N/A

Exceptions: Ltd Qty. N/A

15. REGULATORY INFORMATION

TSCA-listed, EINECS-listed (232-679-6), EINECS-listed (205-633-8), EINECS-listed (231-837-1), EINECS-listed (231-835-0)

16. OTHER INFORMATION

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1. IDENTIFICATION

1.1 Product Identifiers

Product Name: Powder IV
Alternative names: Sodium Chloride, Table Salt.
Product Number: 190-4EA, A190-4, C190-4

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

Identified uses: For laboratory and educational use only

1.3 Details of the supplier of the safety data sheet

Company: Lab-Aids, Inc, 17 Colt Ct., Ronkonkoma, NY 11779, USA
Telephone: +1 800 381 8003.
Fax: +1 631 820 8268

1.4 Emergency telephone number: Emergency number: CHEMTREC 1 800 424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification

Not classified

2.2 Label elements, including precautionary statements

Signal word: Not classified
Hazards statements: Not classified
Precautionary statements: Not classified

Pictogram: Not classified

2.3 Hazards not otherwise classified: none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: white crystals

3.2 Mixture: N/A

Chemical Name	Product identifier	%	GHS-US classification
Sodium chloride	CAS#7647-14-5	99.9%	Not classified

3.3 Chemicals where a trade secret is claimed: None

4. FIRST AID MEASURE

4.1 Description of the first aid measure:

INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if large quantities ingested.

INHALATION: Remove to fresh air. Get medical attention if necessary.

EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if necessary.

SKIN CONTACT: Flush thoroughly with mild soap and water. Remove contaminated clothing. Get medical attention if irritation develop.

4.2 Most important symptoms and effects, both acute and delayed: Refer to section 11.

4.3 Indication of any immediate medical attention and special treatment needed: No additional information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Use TriClass, dry chemical extinguisher for surrounding fires.

5.2 Special hazard arising from the substance or mixture: Not available.

5.3 Advice for firefighters: Use self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear laboratory grade gloves, eye protection and a lab coat.

6.2 Emergency procedures: Restrict unprotected personnel from the area.

6.3 Methods and material used for containment and cleanup procedure: Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

7. HANDLING AND STORAGE

7.1 Precaution for safe handling: Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. Avoid breathing dust. Use with adequate ventilation. Wash hands thoroughly after handling.

7.2 Storage: Keep container in cool, well-ventilated area. Store in closed container in a dry area. Avoid moisture.

7.3 incompatibility: Refer to section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: ACGIH: Not classified

8.2 Exposure controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.

Respiratory protection: Non should be needed if normal laboratory handling at room temperature.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.

Appearance: White crystals.

Odor: Not available

pH: Not available

Vapor Pressure (mm Hg): Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: N/A

Flash point: N/A

Autoignition: N/A

Boiling point: 2575°F/1413°C

Melting point: 1473°F/801°C

Freezing point: N/A

Decomposition temp: N/A

Solubility: soluble in water, glycerol; slightly in alcohol

Specific gravity (H₂O = 1): 2.165g/cc

Percent volatile (%): N/A

Molecular formula: NaCl

Molecular weight: 58.44

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Incompatible materials, High temperatures.

Incompatibilities: Reactive with oxidizing agents, metals and acids.

Hazardous decomposition: When heated to decomposition, emits toxic fumes of chlorine and sodium oxide.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute effects: Eyes: May cause eye irritation . Skin: Not expected to cause any acute effects. Inhalation: Not expected to cause irritation to the respiratory tract and mucous membrane. Ingestion: Ingestion of large quantities may lead to salt poisoning.

Toxicological data

ORL-RAT LD₅₀: 3000mg/kg

IHL-RAT LD₅₀: >42000mg/kg 1hr

SKN-RABBIT LD₅₀: >10000mg/kg

Carcinogenicity:

California prop 65: Not classified

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATION

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

14. TRANSPORT INFORMATION

UN number: N/A

Shipping name: Not regulated

Hazard Class: N/A

Packing group: N/A

Exceptions: N/A

15. REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-598-3)

16. OTHER INFORMATION

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1. IDENTIFICATION

1.1 Product Identifiers

Product Name: Unknown 1
Alternative names: Sodium bicarbonate and sodium chloride mixture
Product Number: 190-8EA, A190-8, C190-8

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

Identified uses: For laboratory and educational use only

1.3 Details of the supplier of the safety data sheet

Company: LAB-AIDS®, Inc, 17 Colt Ct., Ronkonkoma, NY 11779, USA
Telephone: +1 800 381 8003.
Fax: +1 631 820 8268

1.4 Emergency telephone number: Emergency number: CHEMTREC 1 800 424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification

Not hazardous substance or mixture

2.2 Label elements, including precautionary statements

Signal word: Not classified
Hazards statements: Not classified
Precautionary statements: Not classified

Pictogram: Not classified

2.3 Hazards not otherwise classified: none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: Powder

3.2 Mixture: N/A

Chemical Name	Product identifier	%	GHS-US classification
Sodium bicarbonate	CAS#144-55-8	*	Not classified
Sodium chloride	CAS#7647-14-5		Not classified

3.3 Chemicals where a trade secret is claimed: Concentration of ingredients.

4. FIRST AID MEASURE

4.1 Description of the first aid measure:

INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if necessary.

INHALATION: Remove to fresh air. Get medical attention if necessary.

EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if necessary.

SKIN CONTACT: Flush thoroughly with mild soap and water. Remove contaminated clothing.

4.2 Most important symptoms and effects, both acute and delayed: Refer to section 11.

4.3 Indication of any immediate medical attention and special treatment needed: No additional information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Use TriClass, dry chemical extinguisher for surrounding fires.

5.2 Special hazard arising from the substance or mixture: Not available.

5.3 Advice for firefighters: Use self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear laboratory grade gloves, eye protection and a lab coat.

6.2 Emergency procedures: Restrict unprotected personnel from the area.

6.3 Methods and material used for containment and cleanup procedure: Sweep up or vacuum and place for disposal. Avoid formation of dust. Wash spill area with soap and water.

7. HANDLING AND STORAGE

7.1 Precaution for safe handling: Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. Avoid breathing dust. Use with adequate ventilation. Wash hands thoroughly after handling.

7.2 Storage: Keep container in cool, well-ventilated area.

7.3 incompatibility: Refer to section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: ACGIH: Not classified

8.2 Exposure controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.

Respiratory protection: Non should be needed if normal laboratory handling at room temperature.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.

Appearance: White powder.

Odor: Not available

pH: Not available

Vapor Pressure (mm Hg): Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: N/A

Flash point: N/A

Autoignition: N/A

Boiling point: N/A

Melting point: N/A

Freezing point: N/A

Decomposition temp: loses carbon dioxide at 270°C

Solubility: Soluble in water.

Specific gravity (H₂O = 1): Mixture

Percent volatile (%): N/A

Molecular formula: Mixture

Molecular weight: Mixture

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Heat, moisture and incompatibles.

Incompatibilities: Reacts with acids to release carbon dioxide gas and heat.

Hazardous decomposition: Gaseous carbon dioxide.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute effects: Eyes: May cause eye irritation . Skin: Not expected to cause any acute effects. Inhalation: Not expected to cause irritation to the respiratory tract and mucous membrane. Ingestion: Ingestion of large quantities may lead to salt poisoning.

Toxicological data

ORL-RAT LD₅₀: 3000mg/kg (sodium chloride)

IHL-RAT LD₅₀: >42000mg/kg 1hr (sodium chloride)

SKN-RABIT LD₅₀: >10000mg/kg (sodium chloride)

Acute oral toxicity ORAL LD₅₀: >5000 mg/kg [Rat] (sodium bicarbonate)

Acute vapor toxicity IHL-LC₅₀: > 4.74 mg/L [Rat] 4.5h (sodium bicarbonate)

DERMAL LD₅₀: Not available

Carcinogenicity:

California prop 65: Not classified

12. ECOLOGICAL INFORMATION

Does not bioaccumulate. Dissociates into ions. 48h LC₅₀: 2000mg/L Daphnia magna, 96h LC₅₀: 2000mg/L Rainbow Trout.

13. DISPOSAL CONSIDERATION

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

14. TRANSPORT INFORMATION

UN number: N/A

Shipping name: N/A

Hazard Class: N/A

Packing group: N/A

Exceptions: Ltd Qty. N/A

15. REGULATORY INFORMATION

TSCA-listed, EINECS-listed (205-633-8), EINECS-listed (231-598-3)

16. OTHER INFORMATION

Disclaimer:

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1. IDENTIFICATION

1.1 Product Identifiers

Product Name: Unknown 2
Alternative names: Baking powder mixture.
Product Number: 190-9EA, A190-9, C190-9

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

Identified uses: For laboratory and educational use only

1.3 Details of the supplier of the safety data sheet

Company: LAB-AIDS®, Inc, 17 Colt Ct., Ronkonkoma, NY 11779, USA
Telephone: +1 800 381 8003.
Fax: +1 631 820 8268

1.4 Emergency telephone number: Emergency number: CHEMTREC 1 800 424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification

Eye Irrit. (Category 2B) H320

2.2 Label elements, including precautionary statements

Signal word: Warning Pictogram: Not classified
Hazards statements: H320-Causes eye irritation.
Precautionary statements: P264 - Wash skin thoroughly after handling, P280 - Wear protective gloves, eye protection

2.3 Hazards not otherwise classified: none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: N/A

3.2 Mixture:

Chemical Name	Product identifier	%	GHS-US classification
Starch	CAS# 9005-25-8	*	Not classified
Sodium bicarbonate	CAS#144-55-8		Not classified
Calcium phosphate monobasic	CAS#7758-23-8		Eye Corr. 1, H318
Sodium pyrophosphate diabasic	CAS#7758-16-9		Eye Irrit. 2A, H319

3.3 Chemicals where a trade secret is claimed: Concentration of the mixture.

4. FIRST AID MEASURE

4.1 Description of the first aid measure:

INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if necessary.

INHALATION: Remove to fresh air. Get medical attention if necessary.

EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if necessary.

SKIN CONTACT: Flush thoroughly with mild soap and water. Remove contaminated clothing.

4.2 Most important symptoms and effects, both acute and delayed: Refer to section 11.

4.3 Indication of any immediate medical attention and special treatment needed: No additional information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media: May be combustible in the presence of flame

Suitable extinguishing media: Use TriClass, dry chemical extinguisher for surrounding fires.

5.2 Special hazard arising from the substance or mixture: High concentration of dust in air in the presence of ignition source is a potential dust explosion hazard.

5.3 Advice for firefighters: Use self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear laboratory grade gloves, eye protection and a lab coat.

6.2 Emergency procedures: Restrict unprotected personnel from the area.

6.3 Methods and material used for containment and cleanup procedure: Sweep up and place for disposal. Avoid formation of dust. Wash spill area with soap and water.

7. HANDLING AND STORAGE

7.1 Precaution for safe handling: Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. Avoid breathing dust. Use with adequate ventilation. Wash hands thoroughly after handling.

7.2 Storage: Keep container in cool, well-ventilated area.

7.3 incompatibility: Refer to section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: ACGIH: Not classified.

8.2 Exposure controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.

Respiratory protection: Non should be needed if normal laboratory handling at room temperature.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.

Appearance: White powder.

Odor: Not available

pH: Not available

Vapor Pressure (mm Hg): Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: N/A

Flash point: N/A

Autoignition: N/A

Boiling point: Not available

Melting point: Not available

Freezing point: N/A

Decomposition temp: Not available

Solubility: Insoluble in water

Specific gravity (H₂O = 1): Not available

Percent volatile (%): Not available

Molecular formula: Not available

Molecular weight: Not available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Heat, moisture and incompatibles.

Incompatibilities: Reacts with acids to release carbon dioxide gas and heat.

Hazardous decomposition: Gaseous carbon dioxide.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute effects: Eyes: Causes eye irritation. Skin: This product, when dry is generally non-irritating to intact skin. However when moisture is present it can be irritating to damaged skin. Inhalation: Excessive inhalation may cause minor respiratory irritation. Ingestion: No data available.

Toxicological data

Acute oral toxicity ORAL LD₅₀: >5000 mg/kg [Rat] (sodium bicarbonate)

Acute vapor toxicity IHL-LC₅₀: > 4.74 mg/L [Rat] 4.5h (sodium bicarbonate)

DERMAL LD₅₀: Not available

Carcinogenicity:

California prop 65: Not classified

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATION

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

14. TRANSPORT INFORMATION

UN number: N/A

Shipping name: N/A

Hazard Class: N/A

Packing group: N/A

Exceptions: Ltd Qty. N/A

15. REGULATORY INFORMATION

TSCA-listed, EINECS-listed (232-679-6), EINECS-listed (205-633-8), EINECS-listed (231-837-1), EINECS-listed (231-835-0)

16. OTHER INFORMATION

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1. IDENTIFICATION

1.1 Product Identifiers

Product Name: Unknown 3
Alternative names: Mixture of baking products
Product Number: 190-10EA, A190-10, C190-10

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

Identified uses: For laboratory and educational use only

1.3 Details of the supplier of the safety data sheet

Company: LAB-AIDS®, Inc, 17 Colt Ct., Ronkonkoma, NY 11779, USA
Telephone: +1 800 381 8003.
Fax: +1 631 820 8268

1.4 Emergency telephone number: Emergency number: CHEMTREC 1 800 424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification

Not hazardous substance or mixture

2.2 Label elements, including precautionary statements

Signal word: Not classified
Hazards statements: Not classified
Precautionary statements: Not classified

Pictogram: Not classified

2.3 Hazards not otherwise classified: none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: N/A

3.2 Mixture: yes

Chemical Name	Product identifier	%	GHS-US classification
Starch	CAS# 9005-25-8	*	Not classified
Sodium bicarbonate	CAS#144-55-8		Not classified
Sodium chloride	CAS#7647-14-5		Not classified

3.3 Chemicals where a trade secret is claimed: Concentration of the mixture.

4. FIRST AID MEASURE

4.1 Description of the first aid measure:

INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if necessary.

INHALATION: Remove to fresh air. Get medical attention if necessary.

EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if necessary.

SKIN CONTACT: Flush thoroughly with mild soap and water. Remove contaminated clothing.

4.2 Most important symptoms and effects, both acute and delayed: Refer to section 11.

4.3 Indication of any immediate medical attention and special treatment needed: No additional information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media: May be combustible in the presence of flame

Suitable extinguishing media: Use TriClass, dry chemical extinguisher for surrounding fires.

5.2 Special hazard arising from the substance or mixture: High concentration of dust in air in the presence of ignition source is a potential dust explosion hazard.

5.3 Advice for firefighters: Use self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear laboratory grade gloves, eye protection and a lab coat.

6.2 Emergency procedures: Restrict unprotected personnel from the area.

6.3 Methods and material used for containment and cleanup procedure: Sweep up and place for disposal. Avoid formation of dust. Wash spill area with soap and water.

7. HANDLING AND STORAGE

7.1 Precaution for safe handling: Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. Avoid breathing dust. Use with adequate ventilation. Wash hands thoroughly after handling.

7.2 Storage: Keep container in cool, well-ventilated area.

7.3 incompatibility: Refer to section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: ACGIH: Not classified.

8.2 Exposure controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.

Respiratory protection: Non should be needed if normal laboratory handling at room temperature.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.

Appearance: White powder.

Odor: Not available

pH: Not available

Vapor Pressure (mm Hg): Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: N/A

Flash point: N/A

Autoignition: N/A

Boiling point: Not available

Melting point: Not available

Freezing point: N/A

Decomposition temp: Not available

Solubility: Insoluble in water

Specific gravity (H₂O = 1): Not available

Percent volatile (%): Not available

Molecular formula: Not available

Molecular weight: Not available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Heat, moisture and incompatibles.

Incompatibilities: Reacts with acids to release carbon dioxide gas and heat.

Hazardous decomposition: Gaseous carbon dioxide.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute effects: Eyes: May cause eye irritation . Skin: Not expected to cause any acute effects. Inhalation: Not expected to cause irritation to the respiratory tract and mucous membrane. Ingestion: Ingestion of large quantities may lead to salt poisoning.

Toxicological data

ORL-RAT LD₅₀: 3000mg/kg (sodium chloride)

IHL-RAT LD₅₀: >42000mg/kg 1hr (sodium chloride)

SKN-RABIT LD₅₀: >10000mg/kg (sodium chloride)

Acute oral toxicity ORAL LD₅₀: >5000 mg/kg [Rat] (sodium bicarbonate)

Acute vapor toxicity IHL-LC₅₀: > 4.74 mg/L [Rat] 4.5h (sodium bicarbonate)

DERMAL LD₅₀: Not available

Carcinogenicity:

California prop 65: Not classified

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATION

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

14. TRANSPORT INFORMATION

UN number: N/A

Shipping name: N/A

Hazard Class: N/A

Packing group: N/A

Exceptions: Ltd Qty. N/A

15. REGULATORY INFORMATION

TSCA-listed, EINECS-listed (232-679-6), EINECS-listed (205-633-8), EINECS-listed (231-598-3)

16. OTHER INFORMATION

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1. IDENTIFICATION

1.1 Product Identifiers

Product Name: Unknown 4
Alternative names: Baking powder mixture.
Product Number: 190-11EA, A190-11, C190-11

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

Identified uses: For laboratory and educational use only

1.3 Details of the supplier of the safety data sheet

Company: LAB-AIDS®, Inc, 17 Colt Ct., Ronkonkoma, NY 11779, USA
Telephone: +1 800 381 8003.
Fax: +1 631 820 8268

1.4 Emergency telephone number: Emergency number: CHEMTREC 1 800 424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification

Eye Irrit. (Category 2B) H320

2.2 Label elements, including precautionary statements

Signal word: Warning Pictogram: Not classified
Hazards statements: H320-Causes eye irritation.
Precautionary statements: P264 - Wash skin thoroughly after handling, P280 - Wear protective gloves, eye protection

2.3 Hazards not otherwise classified: none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: N/A

3.2 Mixture:

Chemical Name	Product identifier	%	GHS-US classification
Starch	CAS# 9005-25-8	*	Not classified
Sodium bicarbonate	CAS#144-55-8		Not classified
Calcium phosphate monobasic	CAS#7758-23-8		Eye Corr. 1, H318
Sodium pyrophosphate diabasic	CAS#7758-16-9		Eye Irrit. 2A, H319

3.3 Chemicals where a trade secret is claimed: Concentration of the mixture.

4. FIRST AID MEASURE

4.1 Description of the first aid measure:

INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if necessary.

INHALATION: Remove to fresh air. Get medical attention if necessary.

EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if necessary.

SKIN CONTACT: Flush thoroughly with mild soap and water. Remove contaminated clothing.

4.2 Most important symptoms and effects, both acute and delayed: Refer to section 11.

4.3 Indication of any immediate medical attention and special treatment needed: No additional information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media: May be combustible in the presence of flame

Suitable extinguishing media: Use TriClass, dry chemical extinguisher for surrounding fires.

5.2 Special hazard arising from the substance or mixture: High concentration of dust in air in the presence of ignition source is a potential dust explosion hazard.

5.3 Advice for firefighters: Use self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear laboratory grade gloves, eye protection and a lab coat.

6.2 Emergency procedures: Restrict unprotected personnel from the area.

6.3 Methods and material used for containment and cleanup procedure: Sweep up and place for disposal. Avoid formation of dust. Wash spill area with soap and water.

7. HANDLING AND STORAGE

7.1 Precaution for safe handling: Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. Avoid breathing dust. Use with adequate ventilation. Wash hands thoroughly after handling.

7.2 Storage: Keep container in cool, well-ventilated area.

7.3 incompatibility: Refer to section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: ACGIH: Not classified.

8.2 Exposure controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.

Respiratory protection: Non should be needed if normal laboratory handling at room temperature.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.

Appearance: White powder.

Odor: Not available

pH: Not available

Vapor Pressure (mm Hg): Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: N/A

Flash point: N/A

Autoignition: N/A

Boiling point: Not available

Melting point: Not available

Freezing point: N/A

Decomposition temp: Not available

Solubility: Insoluble in water

Specific gravity (H₂O = 1): Not available

Percent volatile (%): Not available

Molecular formula: Not available

Molecular weight: Not available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Heat, moisture and incompatibles.

Incompatibilities: Reacts with acids to release carbon dioxide gas and heat.

Hazardous decomposition: Gaseous carbon dioxide.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute effects: Eyes: Causes eye irritation. Skin: This product, when dry is generally non-irritating to intact skin. However when moisture is present it can be irritating to damaged skin. Inhalation: Excessive inhalation may cause minor respiratory irritation. Ingestion: No data available.

Toxicological data

Acute oral toxicity ORAL LD₅₀: >5000 mg/kg [Rat] (sodium bicarbonate)

Acute vapor toxicity IHL-LC₅₀: > 4.74 mg/L [Rat] 4.5h (sodium bicarbonate)

DERMAL LD₅₀: Not available

Carcinogenicity:

California prop 65: Not classified

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATION

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

14. TRANSPORT INFORMATION

UN number: N/A

Shipping name: N/A

Hazard Class: N/A

Packing group: N/A

Exceptions: Ltd Qty. N/A

15. REGULATORY INFORMATION

TSCA-listed, EINECS-listed (232-679-6), EINECS-listed (205-633-8), EINECS-listed (231-837-1), EINECS-listed (231-835-0)

16. OTHER INFORMATION

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1. IDENTIFICATION

1.1 Product Identifiers

Product Name: Indicator A
Alternative names: Acetic acid water solution.
Product Number: 190-5EA, A190-5, C190-5

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

Identified uses: For laboratory and educational use only

1.3 Details of the supplier of the safety data sheet

Company: LAB-AIDS®, Inc, 17 Colt Ct., Ronkonkoma, NY 11779, USA
Telephone: +1 800 381 8003.
Fax: +1 631 820 8268

1.4 Emergency telephone number

Emergency number: CHEMTREC 1 800 424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification

Skin Irrit. (Category 2) H315
Eye Irrit. (Category 2A) H319

2.2 Label elements, including precautionary statements

Signal word: Warning
Hazards statements: H319 - Causes serious eye irritation, H315– Causes skin irritation
Precautionary statements: P264 - Wash exposed skin thoroughly after handling , P280 - Wear protective gloves, eye protection

Pictogram:



2.3 Hazards not otherwise classified: none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: Not applicable

3.2 Mixture:

Chemical Name	Product identifier	%	GHS-US classification
Water	CAS#7732-18-5	98%	Not classified
Acetic acid	CAS# 64-19-7	2%	Flam. Liq. 3, H226; Skin Corr. 1A H314; Eye Dam. 2, H318

3.3 Chemicals where a trade secret is claimed:

4. FIRST AID MEASURE

4.1 Description of the first aid measure:

INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get immediate medical attention.

INHALATION: Remove to fresh air. Get medical attention if necessary.

EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek immediate medical attention.

SKIN CONTACT: Flush thoroughly with mild soap and water. Remove contaminated clothing. Get medical attention if irritation develops.

4.2 Most important symptoms and effects, both acute and delayed: Refer to section 11.

4.3 Indication of any immediate medical attention and special treatment needed: No additional information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Use water spray, alcohol-resistant foam, or TriClass, dry chemical extinguisher.

5.2 Special hazard arising from the substance or mixture: Not available

5.3 Advice for firefighters: Use self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear laboratory grade gloves, eye protection and a lab coat.

6.2 Emergency procedures: Restrict unprotected personnel from the area.

6.3 Methods and material used for containment and cleanup procedure: Contain the spill with an inert absorbent material and deposit in a sealed container. For small spill use paper towel. Dry material place in trash. Ventilate and wash spill area with soap and water.

7. HANDLING AND STORAGE

7.1 Precaution for safe handling: Read label on container before using. Keep away from heat. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. Avoid breathing vapor. Use hood or with adequate ventilation. Wash hands thoroughly after handling.

7.2 Storage: Keep container tightly closed in cool, well-ventilated area.

7.3 incompatibility: Refer to section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: ACGIH: TWA: 10 ppm (acetic acid)

8.2 Exposure controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.

Respiratory protection: Non should be needed if normal laboratory handling at room temperature.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Appearance: Clear, colorless.

Odor: Pungent

pH: Acidic

Vapor Pressure (mm Hg): Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Flash point: Not available

Autoignition: Not available

Flammability: Not available

Boiling point: Not available

Melting point: Not available

Freezing point: Not available

Decomposition temp: Not available

Solubility: Miscible in water

Specific gravity (H₂O = 1): Not available

Percent volatile (%): Not available

Molecular formula: Mixture

Molecular weight: Mixture

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: High temperatures and incompatible materials.

Incompatibilities: strong oxidizing agents, chromic and nitric acid, sulfuric acid, caustic soda, lime and strong alkalis, metals, hydroxides, peroxides, amines.

Hazardous decomposition: not available.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute effects: Eye: Causes serious eye irritation. Skin: Causes skin irritation. Inhalation: May cause respiratory track irritation. Ingestion: Ingestion of large amounts may cause gastrointestinal track irritation.

Toxicological data:

ORAL LD₅₀: 3320mg/kg [Rat] (acetic acid)

VAPOR LC₅₀: >16000 ppm [Rat] 4h (acetic acid)

DERMAL LD₅₀: 1060mg/kg [Rabbit] (acetic acid)

Carcinogenicity:

California prop 65: Not classified

12. ECOLOGICAL INFORMATION

LC50 (Pimephales promelas (fathead minnow)) 96 hours: 300.82 mg/l

EC50 (Daphnia) 48 hours: >300.82 mg/l

96% (20d) Readily biodegradable

13. DISPOSAL CONSIDERATION

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

14. TRANSPORT INFORMATION

UN number: N/A

Shipping name: Not regulated

Hazard Class: N/A

Packing group: N/A

Exceptions: Ltd Qty. N/A

15. REGULATORY INFORMATION

TSCA-listed, EINECS-listed (200-580-7), DSDL (EEC) R36/37/38– Irritating to eyes, respiratory system and skin

16. OTHER INFORMATION

Disclaimer:

The Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. LAB-AIDS® makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation and verification. The data should not be confused with local, state, federal regulations, or insurance mandates, and CONSTITUTE NO WARRANTY. Any use of these data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond LAB-AIDS, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

1. IDENTIFICATION

1.1 Product Identifiers

Product Name: Indicator B
Alternative names: Lugol's Solution 1.9%.
Product Number: 190-6EA, A190-6, C190-6.

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

Identified uses: For laboratory and educational use only.

1.3 Details of the supplier of the safety data sheet

Company: LAB-AIDS®, Inc, 17 Colt Ct., Ronkonkoma, NY 11779, USA.
Telephone: +1 800 381 8003.
Fax: +1 631 820 8268.

1.4 Emergency telephone number: Emergency number: CHEMTREC 1 800 424-9300.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification

Specific target organ toxicity, oral (Category 1), Thyroid, H372
Eye Irrit. (Category 2A), H319; Skin Irrit. (Category 2), H315
Aquatic Acute (Category 2), H401

Specific Target Organ Toxicity, Respiratory (Category 3), H335

2.2 Label elements, including precautionary statements:

Signal word: Danger

Hazards statements: H 401– Toxic to aquatic life. H372– Causes damage to organs (Thyroid) through prolonged or repeated exposure if swallowed, H335– May cause respiratory irritation. H319– Causes serious eye irritation, H315– Causes skin irritation.

Precautionary statements: P273—Avoid release to the environment; P280 - Wear protective gloves, eye protection

2.3 Hazards not otherwise classified: None.



Pictogram:

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: Not applicable

3.2 Mixture

Chemical Name	Product identifier	%	GHS-US classification
Water	CAS# 7732-18-5	92.4%	Not classified
Potassium iodide	CAS# 7681-11-0	5.7%	Acute Tox. 4 (Oral), H302; Skin Irrit. 2, H315, Eye Irrit. 2A H319
Iodine	CAS# 7553-56-2	1.9%	Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Corr. 1, H314; Eye Dam 1 H318; STOT RE 1, H372; STOT SE 3, H335; Aquatic Acute 1, H400.

3.3 Chemicals where a trade secret is claimed: None

4. FIRST AID MEASURE

4.1 Description of the first aid measure:

INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get immediate medical attention.

INHALATION: Remove to fresh air. Get medical attention if necessary.

EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if necessary.

SKIN CONTACT: Flush thoroughly with mild soap and water. Remove contaminated clothing. Get medical attention if irritation develop.

4.2 Most important symptoms and effects, both acute and delayed: Refer to section 11.

4.3 Indication of any immediate medical attention and special treatment needed: No additional information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media: Nonflammable liquid

Suitable extinguishing media: Use TriClass, dry chemical extinguisher for surrounding fires.

5.2 Special hazard arising from the substance or mixture: Excessive heat releases vapors of hydrogen iodide.

5.3 Advice for firefighters: Use self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear laboratory grade gloves, eye protection and a lab coat.

6.2 Emergency procedures: Restrict unprotected personnel from the area.

6.3 Methods and material used for containment and cleanup procedure: Contain the spill with an inert absorbent material and deposit in a sealed bag or container. For small spill use paper towel. Place the wet medium in trash. Ventilate and wash spill area with soap and water.

7. HANDLING AND STORAGE

7.1 Precaution for safe handling: Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. Avoid breathing vapor. Use with adequate ventilation. Wash hands thoroughly after handling.

7.2 Storage: Keep container in cool, well-ventilated area. Keep away from heat.

7.3 incompatibility: Refer to section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: ACGIH: TWA: 0.01mg/m³

8.2 Exposure controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.

Respiratory protection: Non should be needed if normal laboratory handling at room temperature.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Appearance: Dark brown.

Odor: Not available

pH: Not available

Vapor Pressure (mm Hg): Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: N/A

Flash point: N/A

Autoignition: N/A

Boiling point: Not available

Melting point: Not available

Freezing point: Not available

Decomposition temp: Not available

Solubility: Not available

Specific gravity (H₂O = 1): ≈1 at 20°C

Percent volatile (%): 100%

Molecular formula: Mixture

Molecular weight: Mixture

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: High temperatures and incompatible materials.

Incompatibilities: Oxidizing agents, reducing agents, organic material, metals, acids, salts and alkaloids.

Hazardous decomposition: Excessive heat releases vapors of hydrogen iodide.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute effects: Eyes: Cause serious eye irritation. Eye contact with excessive amount of iodine vapor may also cause blepharitis. Skin: It may cause skin irritation. It may cause temporary brown stains on skin. Inhalation: Excessive inhalation of iodine vapors may cause respiratory tract irritation, that includes nasal cavity and mucus membrane irritation Ingestion: Ingestion of large doses may cause irritation to mouth with thirst, nausea, vomiting, abdominal pain, hypomotility and diarrhea. It may also affect cardiovascular system. Chronic exposure to elevated concentration of Iodine may damage thyroid.

Toxicological data

Acute toxicity ORAL LD₅₀: 14,000mg/kg [Rat] (Iodine).

Acute toxicity DERMAL LD₅₀: 1,425mg/kg [Rat] (Iodine).

Acute vapor toxicity IHL-LC₅₀: 4,588mg/kg [Rat] (Iodine).

Carcinogenicity:

California prop 65: Not classified

12. ECOLOGICAL INFORMATION

LC50 Oncorhynchus mykiss (rainbow trout) 96 hours: 1.7 mg/l. LC50 (iodine). EC50 Daphnia magna (Water flea) 48 hours: 0.2 mg/l. (iodine)

EC50 Daphnia magna (Water flea) 48 hours: 2.7 mg/l. (potassium iodide)

13. DISPOSAL CONSIDERATION

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

14. TRANSPORT INFORMATION

UN number: N/A

Shipping name: N/A

Hazard Class: N/A

Packing group: N/A

Exceptions: Ltd Qty. N/A

15. REGULATORY INFORMATION

TSCA-listed, DSCL (EEC) R36/38 Irritating to eyes and skin, WHMIS (Canada) not controlled.

16. OTHER INFORMATION

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1. IDENTIFICATION

1.1 Product Identifiers

Product Name: Indicator C
Alternative names: Water.
Product Number: 190-7EA, A190-7, C190-7

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

Identified uses: For laboratory and educational use only

1.3 Details of the supplier of the safety data sheet

Company: LAB-AIDS®, Inc, 17 Colt Ct., Ronkonkoma, NY 11779, USA
Telephone: +1 800 381 8003.
Fax: +1 631 820 8268

1.4 Emergency telephone number: Emergency number: CHEMTREC 1 800 424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification

Not classified

2.2 Label elements, including precautionary statements

Signal word: Not classified
Hazards statements: Not classified
Precautionary statements: Not classified

Pictogram: Not classified

2.3 Hazards not otherwise classified: none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: Liquid

3.2 Mixture:

Chemical Name	Product identifier	%	GHS-US classification
Water	CAS# 7732-18-5	100%	Not classified

3.3 Chemicals where a trade secret is claimed: None

4. FIRST AID MEASURE

4.1 Description of the first aid measure:

INGESTION: Data not available
INHALATION: Data not available
EYE CONTACT: Data not available
SKIN CONTACT: Data not available

4.2 Most important symptoms and effects, both acute and delayed: Refer to section 11.

4.3 Indication of any immediate medical attention and special treatment needed: No additional information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media: Nonflammable liquid

Suitable extinguishing media: Not applicable

5.2 Special hazard arising from the substance or mixture: Not available.

5.3 Advice for firefighters: No data available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear laboratory grade gloves, eye protection and a lab coat.

6.2 Emergency procedures: Restrict unprotected personnel from the area.

6.3 Methods and material used for containment and cleanup procedure: Mop up the area.

7. HANDLING AND STORAGE

7.1 Precaution for safe handling: Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Use only under adult supervision.

7.2 Storage: No special storage conditions required.

7.3 incompatibility: Refer to section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: ACGIH: Not classified

8.2 Exposure controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.

Respiratory protection: Non should be needed if normal laboratory handling at room temperature.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Appearance: Clear.

Odor: Not available

pH: 6.0-8.0

Vapor Pressure (mm Hg): Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: N/A

Flash point: N/A

Autoignition: N/A

Boiling point: 100°C

Melting point: 0.0°C

Freezing point: Not available

Decomposition temp: Not available

Solubility: Not available

Specific gravity (H₂O = 1): 1 at 20°C

Percent volatile (%): 100%

Molecular formula: H₂O

Molecular weight: 18.02

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Not available.

Incompatibilities: Not available

Hazardous decomposition: Not available.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute effects: Eyes: No data available. Skin: No data available. Inhalation: No data available. Ingestion: No data available.

Toxicological data

Acute oral toxicity ORAL LD₅₀: ORAL LD₅₀: 90g/kg [Rat].

Acute vapor toxicity IHL-LC₅₀: Not available

DERMAL LD₅₀: Not available

Carcinogenicity:

California prop 65: Not classified

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATION

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

14. TRANSPORT INFORMATION

UN number: N/A

Shipping name: N/A

Hazard Class: N/A

Packing group: N/A

Exceptions: Ltd Qty. N/A

15. REGULATORY INFORMATION

TSCA-listed. EC-No. (231-791-2)

16. OTHER INFORMATION

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