

## Safety Data Sheet

### Mouse pan CK Ready-To-Use IHC Kit

Cat#: orb1974481

Number	Component	Size	Concentration
1	PBS Buffer (powder)	2 L×2	20x
2	Antigen Retrieval Buffer	20 ml	100x
3	Endogenous Peroxidase Blocking Buffer	3 ml	RTU
4	Blocking Buffer	3 ml	RTU
5	Primary Antibody (Mouse pan CK Mouse mAb)	6 ml	RTU
6	Secondary Antibody (HRP-Goat anti-Mouse IgG pAb)	6 ml	RTU
7	Chromogen Component A	0.3 ml	RTU
8	Chromogen Component B	0.3 ml	RTU
9	Counter Staining Reagent	5 ml	RTU
10	Mounting Media	5 ml	RTU

## 1. PRODUCT INFORMATION

Product Name: PBS Buffer (powder)

## 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Other hazards

None

## 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

PBS Powder

## 4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact

Remove any contact lenses, locate eye-wash station, and flush eyes immediately with large amounts of water. Separate eyelids

with fingers to ensure adequate flushing. Promptly call a physician.

Skin contact

Rinse skin thoroughly with large amounts of water. Remove contaminated clothing and shoes and call a physician.

Inhalation

Immediately relocate self or casualty to fresh air. If breathing is difficult, give cardiopulmonary resuscitation (CPR). Avoid mouth

to-mouth resuscitation.

Ingestion

Wash out mouth with water; Do NOT induce vomiting; call a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2).

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, dry chemical, foam, and carbon dioxide fire extinguisher.

5.2 Special hazards arising from the substance or mixture

During combustion, may emit irritant fumes.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use full personal protective equipment. Avoid breathing vapors, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Refer to protective measures listed in section 8.

### 6.2 Environmental precautions

Try to prevent further leakage or spillage. Keep the product away from drains or water courses.

### 6.3 Methods and materials for containment and cleaning up

Absorb solutions with finely powdered liquid-binding material (diatomite, universal binders);

Decontaminate surfaces and

equipment by scrubbing with alcohol; Dispose of contaminated material according to Section 13.

### 6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid inhalation, contact with eyes and skin. Avoid dust and aerosol formation. Use only in areas with appropriate exhaust ventilation.

### 7.2 Conditions for safe storage, including any incompatibility

Keep container tightly sealed in cool, well-ventilated area. Keep away from direct sunlight and sources of ignition.

**Recommended storage temperature:** RT

### 7.3 Specific end use(s)

No data available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Components with workplace control parameters

This product contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Engineering controls

Ensure adequate ventilation. Provide accessible safety shower and eye wash station.

#### Personal protective equipment

**Eye protection** Safety goggles with side-shields.

**Hand protection** Protective gloves.

**Skin and body protection** Impervious clothing.

**Respiratory protection** Suitable respirator.

**Environmental exposure controls** Keep the product away from drains, water courses or the soil. Clean spillages in a safe way as soon as possible.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Powder

**Odor** No data available

**Odor threshold** No data available

**pH** No data available

**Melting/freezing point** No data available

**Boiling point/range** No data available

**Flash point** No data available

**Evaporation rate** No data available

**Flammability (solid, gas)** No data available

**Upper/lower flammability or explosive limits** No data available

**Vapor pressure** No data available

**Vapor density** No data available

**Relative density** No data available

**Water Solubility** No data available

**Partition coefficient** No data available

**Auto-ignition temperature** No data available

**Decomposition temperature** No data available

**Viscosity** No data available

**Explosive properties** No data available

**Oxidizing properties** No data available

### 9.2 Other safety information

No data available

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

### 10.6 Hazardous decomposition products

Under fire conditions, may decompose and emit toxic fumes.

Other decomposition products - no data available.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

Classified based on available data. For more details, see section 2

#### Skin corrosion/irritation

Classified based on available data. For more details, see section 2

#### Serious eye damage/irritation

Classified based on available data. For more details, see section 2

#### Respiratory or skin sensitization

Classified based on available data. For more details, see section 2

#### Germ cell mutagenicity

Classified based on available data. For more details, see section 2

#### Carcinogenicity

IARC: No component of this product present at a level equal to or greater than 0.1% is identified as probable, possible or

confirmed human carcinogen by IARC.

ACGIH: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed

carcinogen by ACGIH.

NTP: No component of this product present at a level equal to or greater than 0.1% is identified as a anticipated or confirmed

carcinogen by NTP.

OSHA: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed

carcinogen by OSHA.

#### Reproductive toxicity

Classified based on available data. For more details, see section 2

#### Specific target organ toxicity - single exposure

Classified based on available data. For more details, see section 2

#### Specific target organ toxicity - repeated exposure

Classified based on available data. For more details, see section 2

#### Aspiration hazard

Classified based on available data. For more details, see section 2

#### Additional information

This information is based on our current knowledge. However, the chemical, physical, and toxicological properties have not been completely investigated.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No data available.

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment unavailable as chemical safety assessment not required or not conducted.

### 12.6 Other adverse effects

No data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Dispose substance in accordance with prevailing country, federal, state and local regulations.

#### Contaminated packaging

Conduct recycling or disposal in accordance with prevailing country, federal, state and local regulations.

## 14. TRANSPORT INFORMATION

### DOT (US)

Hazard Class: Non-hazardous for transport

### IMDG

ADR/RID Class: Non-hazardous for transport

### IATA

ICAO/IATA Class: Non-hazardous for transport

## 15. REGULATORY INFORMATION

### 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:**

No SARA Hazards.

Massachusetts Right To Know Components:

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components:

No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right To Know Components:

No components are subject to the New Jersey Right to Know Act.

California Prop. 65 Components:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or anyother reproductive harm.

## 16. OTHER INFORMATION

The information provided on the Safety Data Sheet is to the best of our knowledge, information, and belief at the time of its publication. The information given is designed to be used as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. Conditions of use and suitability of the product for particular uses are beyond our control; therefore, the user assumes all risks of use of the product.

## 1. PRODUCT INFORMATION

Product Name: Antigen Retrieval Buffer

## 2. HAZARDS IDENTIFICATION

2.1 GHS Classification of the substance or mixture

Eye Irritation	Category 2
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2.2 GHS label elements



### Pictogram

### Signal word: Warning Hazard statements:

H332 – Harmful if inhaled

H373 – May cause damage to organs (Respiratory Tract)

### Precautionary statements:

P304+P340+P312 – If INHALED: Remove person to fresh air and keep comfortable. Call a poison center or doctor if not feeling well.

P314 – Get medical advice/attention if you feel unwell.

P501 - Dispose of contents/container to an approved waste disposal plant.

P264 – Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P321 - Specific treatment (see supplemental first-aid measures on this label).

P362 - Take off contaminated clothing.

P302+P352 - IF ON SKIN: wash with plenty of water.

P332+P313 - IF SKIN irritation occurs: Get medical advice/attention.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P337+P313 - IF eye irritation persists: Get medical advice/attention. Hazards not otherwise classified: None known.

## 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Sodium Citrate	10-15%	68-04-2
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## 4. FIRST AID MEASURES

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction Get medical attention if symptoms occur. If symptoms persist, consult a physician.

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation:** Remove victims to fresh air and keep at rest in a comfortable position for breathing. Get medical attention if symptoms occur.

**Ingestion:** Wash out mouth with water. Remove victims to fresh air and keep resting in a comfortable position for breathing. If material has been swallowed and the exposed person is conscious, give water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute, and delayed Potential acute health effects

**Skin contact:** May cause sensitization of susceptible persons.

Over-exposure signs/symptoms

**Skin contact:** Repeated contact may cause allergic reactions in very susceptible persons. Avoid Repeat exposure

**Ingestion:** Repeated ingestion may cause damage to kidneys. Avoid Repeat Exposure

Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments: No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.

## 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:** Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media:** No information available

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur, and the container may burst.

**Special protective actions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

**For non-emergency personnel:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**For emergency responders:** If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

Methods and materials for containment and cleaning up:

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. HANDLING AND STORAGE

Use only in areas provided with exhaust ventilation. Avoid contact with skin, eyes, and clothing. Wear appropriate protective clothing (Section 8).

Keep container tightly closed, and in a cool, well-ventilated area. Store at 2-8°C. When the kit is in use, place at room temperature or up to 37°C.

This buffer is heated to 95- 100°C during use.

Precautions for safe handling:

Protective measures: Put on appropriate personal protective equipment (see Section 8)

Advice on general occupational hygiene: Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibility: Do not store above the following temperature: +2°C to +8°C. Store in accordance with local regulations. Store in original containers protected from light in a dry, cool, and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters:

Occupational exposure limits: Not available.

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures:

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dust. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### **Skin protection:**

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

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: 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.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state: Liquid

Color: clear

Odor: Not available.

Odor threshold pH: 9.0

Melting point: >135°C

Boiling point: Not available.

Flash point: Not available.

Burning time: Not applicable.

Burning rate: Not applicable

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Lower and upper explosive (flammable) limits: 2.29 kg/m<sup>3</sup> and 0.28 kg/m<sup>3</sup>

Vapor pressure: Not available.

Vapor density: Not available.

Relative density: p(20) 1.542 g/mL

Solubility: Soluble in water or aqueous buffers.

Partition coefficient: -1.72

Auto-ignition temperature: 1010

Decomposition temperature: Not available.

SADT: Not available.

Viscosity: Not available.

## 10. STABILITY AND REACTIVITY

Reactivity: None known

Chemical stability: Stable under normal conditions

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No information available

Incompatible materials: Oxidizing agents, Bases, Reducing agents, Nitrates

Hazardous decomposition products: Under fire conditions

## 11. TOXICOLOGICAL INFORMATION

Information on toxicology effects:

Acute toxicity: Not available Irritation/Corrosion: Not available.

Sensitization: May cause sensitization of susceptible persons. Mutagenicity: Not available.

Carcinogenicity: Not available. Reproductive toxicity: Not available. Teratogenicity: Not available.

Specific target organ toxicity (single exposure): Not available.

Specific target organ toxicity (repeated exposure): Oral – May cause damage to kidneys through prolonged or repeated exposure

Aspiration hazard: Not available.

Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects:

Eye contact: No known significant effects or critical hazards. Inhalation: No known significant effects or critical hazards. Skin contact: May cause sensitization of susceptible people.

Ingestion: May cause damage to kidneys with repeated exposure.

Symptoms related to the physical, chemical, and toxicological characteristics: Eye contact: No specific data.

Inhalation: No specific data. Skin contact: No specific data. Ingestion: No specific data.

Delayed and immediate effects. Also, chronic effects from short- and long-term exposure. Short-term exposure: Not available.

Potential immediate effects: Not available. Potential delayed effects: Not available. Long term exposure: Not available.

Potential immediate effects: Not available.

Potential delayed effects: Repeated contact may cause allergic reactions in very susceptible people. Repeated ingestion may cause damage to kidneys.

Potential chronic health effects: Not available.

General: No known significant effects or critical hazards. Carcinogenicity: No known significant effects or critical hazards. Mutagenicity: No known significant effects or critical hazards. Teratogenicity: No known significant effects or critical hazards. Developmental effects: No known significant effects or critical hazards. Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates: Not available

## 12. ECOLOGICAL INFORMATION

Data not yet available.

## 13. DISPOSAL CONSIDERATIONS

Waste generation should be avoided or minimized wherever possible. Disposal of this product, its solutions, and any by-products must comply with all applicable environmental protection, waste disposal legislation, and local authority requirements. Surplus and non-recyclable materials should be disposed of through a licensed waste contractor. Do not discharge waste to the sewer unless fully compliant with regulatory requirements. Recycle packaging where possible.

Incineration or landfill should only be used if recycling is not feasible. Dispose of this material and its container safely. Empty containers or liners may retain product residues. Avoid dispersal of spilled material, runoff, and contact with soil, waterways, drains, or sewers.

## 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

US Federal Regulations

This mixture is not listed on the TSCA Inventory. This substance is not SARA listed.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs): Not listed  
Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed  
DEA List I Chemicals (Precursor Chemicals): Not listed  
DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304:

Composition/information on ingredients: No products were found. SARA 304 RQ: Not applicable.

SARA 311/312:

Classification: Not applicable.

Composition/information on ingredients: No products were found. State regulations:

California Prop65: Not listed

International regulations:

EU REACH: Not listed

## 16. OTHER INFORMATION

The information provided on the Safety Data Sheet is to the best of our knowledge, information, and belief at the time of its publication. The information given is designed to be used as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. Conditions of use and suitability of the product for particular uses are beyond our control; therefore, the user assumes all risks of use of the product.

### 1. PRODUCT INFORMATION

Product Name: Endogenous Peroxidase Blocking Buffer

### 2. HAZARDS IDENTIFICATION

2.1 GHS Classification of the substance or mixture

Not Hazardous.

### 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

H2O2	3%	7722-84-1
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### 4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact

Remove any contact lenses, locate eye-wash station, and flush eyes immediately with large amounts of water. Separate eyelids

with fingers to ensure adequate flushing. Promptly call a physician.

Skin contact

Rinse skin thoroughly with large amounts of water. Remove contaminated clothing and shoes and call a physician.

Inhalation

Immediately relocate self or casualty to fresh air. If breathing is difficult, give cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

Ingestion

Wash out mouth with water; Do NOT induce vomiting; call a physician.

### 5. FIREFIGHTING MEASURES

5.1 Suitable extinguishing media\

Water spray, alcohol-resistant foam, dry chemical, carbon dioxide or appropriate foam. For small fires, use media such as "alcohol" foam, dry chemical or carbon dioxide.

For large fires, apply water from as far as possible. Use large quantities of water applied as mist or spray.

Solid streams of water may be ineffective. Cool affected containers with flooding quantities of water.

#### 5.2 Special precautions for fire-fighters

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### 5.3 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Hydrogen chloride gas.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Person-related safety precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Remove all sources

of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can

accumulate in low areas.

### 6.2 Measures for environmental protection

Prevent further leakage or spillage if safe to do so. Do not let enter drains. Discharge into the environment must be avoided.

### 6.3 Measures for containment and cleaning

Contain spillage and then collect with non-combustible absorbent material (eg. sand, diatomaceous earth, vermiculite).

Place it in a container for disposal according to local regulations. Pick up and arrange disposal without creating dust. Sweep

up and shovel. Keep in suitable, closed containers for disposal. Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### 7.1 Handling

Wear appropriate protective clothing and safety gloves.

Avoid inhalation.

Avoid contact with eyes, skin and clothing.

Mechanical exhaust required.

Keep away from ignition sources, heat and flame.

No smoking at work site.

Incompatibility: Strong oxidizing agents, Strong acids. Handling and unloading should be light, to prevent packaging broken, damp and cause losses.

Working place should be equipped with appropriate varieties and quantities of firefighting equipment and leakage emergency treatment equipment.

### 7.2 Storage

Store in a cool, dry, and well-ventilated area with the container tightly closed. Keep away from heat, sparks, flames, and other sources of ignition.

Incompatible with strong oxidizing agents and strong acids.

Storage areas should be equipped with appropriate firefighting and spill response equipment.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Engineering Controls

Mechanical exhaust required. Safety shower and eye bath.

### 8.2 Personal Protective Equipment

Respiratory: Government approved respirator if needed.

Eye/face: Chemical safety goggles if needed.

Clothing: Wear appropriate protective clothing.

Hand/skin: Protective gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection: Wear suitable protective clothing according to the concentration and amount of the substance at the workplace.

### 8.3 Other Protections

No smoking, drinking and eating at work sites. Wash thoroughly after handling it.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Odor: Not available.

Melting point/melting range: Not available.

Boiling point/boiling range: Not available.

Flash point: Not available.

Autoignition temperature: Not available.

Decomposition temperature: Not available.

Evaporation rate: Not available.

Flammability: Not available.

Upper explosion limit: Not available.

Lower explosion limit: Not available.

Vapor pressure: Not available.

Relative density: Not available.

Specific gravity: Not available.

Solubility: Not available.

Partition coefficient: Not available.

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under normal conditions

Possibility of hazardous reactions: No data available

Conditions to avoid: Heat, flames and sparks

Incompatible materials: Strong oxidizing agent, Light sensitivity, Alcohols, Organic materials, Heavy metals, Powdered metals, Strong reducing agents, Amines, Mercaptans.

Hazardous decomposition products:

Other decomposition products: No data available

Hazardous decomposition products formed under fire conditions: Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas.

## 11. TOXICOLOGICAL INFORMATION

No data available.

## 12. ECOLOGICAL INFORMATION

No data available.

## 13. DISPOSAL CONSIDERATIONS

Waste generation should be avoided or minimized wherever possible. Disposal of this product, its solutions, and any by-products must comply with all applicable environmental protection, waste disposal legislation, and local authority requirements. Surplus and non-recyclable materials should be disposed of through a licensed waste contractor. Do not discharge waste to the sewer unless fully compliant with regulatory requirements. Recycle packaging where possible.

Incineration or landfill should only be used if recycling is not feasible. Dispose of this material and its container safely. Empty containers or liners may retain product residues. Avoid dispersal of spilled material, runoff, and contact with soil, waterways, drains, or sewers.

## 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

This material safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008 and its amendments.

## 16. OTHER INFORMATION

The information provided on the Safety Data Sheet is to the best of our knowledge, information, and belief at the time of its publication. The information given is designed to be used as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. Conditions of use and suitability of the product for particular uses are beyond our control; therefore, the user assumes all risks of use of the product.

## 1. PRODUCT INFORMATION

Product Name: Blocking Buffer

## 2. HAZARDS IDENTIFICATION

2.1 GHS Classification of the substance or mixture

Not Hazardous.

2.2 GHS label elements



Pictogram:

**Signal word: None Hazard statements:**

None

**Precautionary statements:**

P304+P340+P312 – If INHALED: Remove person to fresh air and keep comfortable. Call a poison center or doctor if not feeling well.

P314 – Get medical advice/attention if you feel unwell.

P264 – Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - IF ON SKIN: wash with plenty of water.

P332+P313 - IF SKIN irritation occurs: Get medical advice/attention.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P337+P313 - IF eye irritation persists: Get medical advice/attention. Hazards not otherwise classified: None known.

## 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

The product contains no substances which at their given concentration are considered to be hazardous to health.

## 4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact

Remove any contact lenses, locate eye-wash station, and flush eyes immediately with large amounts of water. Separate eyelids

with fingers to ensure adequate flushing. Promptly call a physician.

Skin contact

Rinse skin thoroughly with large amounts of water. Remove contaminated clothing and shoes and call a physician.

Inhalation

Immediately relocate self or casualty to fresh air. If breathing is difficult, give cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

Ingestion

Wash out mouth with water; Do NOT induce vomiting; call a physician.

## 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: No information available

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur, and the container may burst.

Special protective actions for fire-fighters: Promptly isolate the scene by removing all people from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

Methods and materials for containment and cleaning up:

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. HANDLING AND STORAGE

Use only in area provided with exhaust ventilation. Avoid contact with skin, eyes, and clothing. Wear appropriate protective clothing (Section 8).

Keep container tightly closed, and in a cool, well-ventilated area. Store at 4°C.

Precautions for safe handling:

Protective measures: Put on appropriate personal protective equipment (see Section 8)

Advice on general occupational hygiene: Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibility: Do not store above the following temperature: +2°C to +8°C. Store in accordance with local regulations. Store in original containers protected from light in a dry, cool, and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters:

Occupational exposure limits: Not available.

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures:

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dust. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### Skin protection:

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

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: clear

Odor: Not available.

Odor threshold pH: Not available.

Melting point: Not available.

Boiling point: Not available.

Flash point: Not available.

Burning time: Not applicable.

Burning rate: Not applicable

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Lower and upper explosive (flammable) limits: Not available.

Vapor pressure: Not available.

Vapor density: Not available.

Relative density: Not available.

Solubility: Soluble in water or aqueous buffers.

Partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

SADT: Not available.

Viscosity: Not available.

## 10. STABILITY AND REACTIVITY

Reactivity: None known

Chemical stability: Stable under normal conditions

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No information available

Incompatible materials: Oxidizing agents, Bases, Reducing agents, Nitrates

Hazardous decomposition products: Under fire conditions

## 11. TOXICOLOGICAL INFORMATION

Information on toxicology effects:

Acute toxicity: Not available Irritation/Corrosion: Not available.

Sensitization: May cause sensitization of susceptible persons. Mutagenicity: Not available.

Carcinogenicity: Not available. Reproductive toxicity: Not available. Teratogenicity: Not available.

Specific target organ toxicity (single exposure): Not available.

Specific target organ toxicity (repeated exposure): Oral – May cause damage to kidneys through prolonged or repeated exposure

Aspiration hazard: Not available.

Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects:

Eye contact: No known significant effects or critical hazards. Inhalation: No known significant effects or critical hazards. Skin contact: May cause sensitization of susceptible people.

Ingestion: May cause damage to kidneys with repeated exposure.

Symptoms related to the physical, chemical, and toxicological characteristics: Eye contact: No specific data.

Inhalation: No specific data. Skin contact: No specific data. Ingestion: No specific data.

Delayed and immediate effects. Also, chronic effects from short- and long-term exposure. Short-term exposure: Not available.

Potential immediate effects: Not available. Potential delayed effects: Not available. Long term exposure: Not available.

Potential immediate effects: Not available.

Potential delayed effects: Repeated contact may cause allergic reactions in very susceptible people.

Repeated ingestion may cause damage to kidneys.

Potential chronic health effects: Not available.

General: No known significant effects or critical hazards. Carcinogenicity: No known significant effects or critical hazards. Mutagenicity: No known significant effects or critical hazards. Teratogenicity: No known significant effects or critical hazards. Developmental effects: No known significant effects or critical hazards. Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates: Not available

## 12. ECOLOGICAL INFORMATION

Data not yet available.

## 13. DISPOSAL CONSIDERATIONS

Waste generation should be avoided or minimized wherever possible. Disposal of this product, its solutions, and any by-products must comply with all applicable environmental protection, waste disposal legislation, and local authority requirements. Surplus and non-recyclable materials should be disposed of through a licensed waste contractor. Do not discharge waste to the sewer unless fully compliant with regulatory requirements. Recycle packaging where possible.

Incineration or landfill should only be used if recycling is not feasible. Dispose of this material and its container safely. Empty containers or liners may retain product residues. Avoid dispersal of spilled material, runoff, and contact with soil, waterways, drains, or sewers.

#### 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

#### 15. REGULATORY INFORMATION

US Federal Regulations

This mixture is not listed on the TSCA Inventory. This substance is not SARA listed.

International regulations:

EU REACH: Not listed

#### 16. OTHER INFORMATION

The information provided on the Safety Data Sheet is to the best of our knowledge, information, and belief at the time of its publication. The information given is designed to be used as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. Conditions of use and suitability of the product for particular uses are beyond our control; therefore, the user assumes all risks of use of the product.

## 1. PRODUCT INFORMATION

Product Name: Primary Antibody

## 2. HAZARDS IDENTIFICATION

GHS label elements Pictogram: None Signal word: None

Hazard statements: None Precautionary statements: None.

## 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

BSA	N/G	9048-46-8
Glycerol	N/G	56-81-5
Proclin300	N/G	

## 4. FIRST AID MEASURES

**Skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction Get medical attention if symptoms occur. If symptoms persist, consult a physician.

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation:** Remove victims to fresh air and keep at rest in a comfortable position for breathing. Get medical attention if symptoms occur.

**Ingestion:** Wash out mouth with water. Remove victims to fresh air and keep resting in a comfortable position for breathing. If material has been swallowed and the exposed person is conscious, give water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute, and delayed Potential acute health effects

Skin contact: May cause sensitization of susceptible people.

Over-exposure signs/symptoms

Skin contact: Repeated contact may cause allergic reactions in very susceptible people. Avoid Repeat exposure

Ingestion: Repeated ingestion may cause damage to kidneys. Avoid Repeat Exposure

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

## 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, CO<sub>2</sub>, or dry powder. Unsuitable extinguishing media: No information available

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

Methods and materials for containment and cleaning up:

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor.

## 7. HANDLING AND STORAGE

Handle as if capable of transmitting a disease. Use PPE. Avoid contact with skin, eyes, and clothing. Wear appropriate protective clothing (Section 8).

Keep container tightly closed, and in a cool, well-ventilated area. Store at 2-8°C.

Precautions for safe handling:

Protective measures: Put on appropriate personal protective equipment (see Section 8)

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Follow good laboratory practices using universal and standard precautions. In accordance with Universal Precautions, gloves, masks, and gowns should be worn if handling the material. Do not pipette by mouth.

Sodium Azide:

ACGIH TLV: Ceiling: 0.29 mg/m<sup>3</sup> Ceiling: 0.11 ppm OSHA PEL: Not applicable.

NIOSH REL: Ceiling: 0.3 mg/m<sup>3</sup>, Ceiling: 0.1 ppm

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: Not available.

Odor: Not available.  
Odor threshold pH: Not available.  
Melting point: Not available.  
Boiling point: Not available.  
Flash point: Not available.  
Burning time: Not applicable.  
Burning rate: Not applicable  
Evaporation rate: Not available.  
Flammability (solid, gas): Not available.  
Lower and upper explosive (flammable) limits: Not available.  
Vapor pressure: Not available.  
Vapor density: Not available.  
Relative density: Not available.  
Solubility: Soluble in water or aqueous buffers.  
Partition coefficient: Not available.  
Auto-ignition temperature: Not available.  
Decomposition temperature: Not available.  
SADT: Not available.  
Viscosity: Not available.

## 10. STABILITY AND REACTIVITY

Reactivity: None known  
Chemical stability: Stable under normal conditions  
Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.  
Conditions to avoid: No information available  
Incompatible materials: Oxidizing agents, Bases, Reducing agents, Nitrates  
Hazardous decomposition products: Under fire conditions

## 11. TOXICOLOGICAL INFORMATION

Information on toxicology effects:  
Acute toxicity: Not available Irritation/Corrosion: Not available. Sensitization: Not available.  
Mutagenicity: Not available. Carcinogenicity: Not available. Reproductive toxicity: Not available.  
Teratogenicity: Not available.  
Specific target organ toxicity (single exposure): Not available. Specific target organ toxicity (repeated exposure): Not available. Aspiration hazard: Not available.  
Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated

## 12. ECOLOGICAL INFORMATION

Data not yet available.

## 13. DISPOSAL CONSIDERATIONS

Disposals should be made in accordance with existing procedure and protocols currently in place. Observe all federal, state, and local regulations pertaining to waste disposal.

## 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

US Federal Regulations

This mixture is not listed on the TSCA Inventory. This substance is not SARA listed.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs): Not listed  
Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed  
DEA List I Chemicals (Precursor Chemicals): Not listed  
DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304:

Composition/information on ingredients: No products were found. SARA 304 RQ: Not applicable.

SARA 311/312:

Classification: Not applicable.

Composition/information on ingredients: No products were found. State regulations:

California Prop65: Not listed

International regulations:

EU REACH: Not listed

## 16. OTHER INFORMATION

The information provided on the Safety Data Sheet is to the best of our knowledge, information, and belief at the time of its publication. The information given is designed to be used as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. Conditions of use and suitability of the product for particular uses are beyond our control; therefore, the user assumes all risks of use of the product.

### 1. PRODUCT INFORMATION

Product Name: Secondary Antibody

### 2. HAZARDS IDENTIFICATION

GHS label elements Pictogram: None Signal word: None

Hazard statements: None Precautionary statements: None.

### 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

BSA	N/G	9048-46-8
Glycerol	N/G	56-81-5
Proclin300	N/G	

### 4. FIRST AID MEASURES

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction Get medical attention if symptoms occur. If symptoms persist, consult a physician.

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: Remove victims to fresh air and keep at rest in a comfortable position for breathing. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. Remove victims to fresh air and keep resting in a comfortable position for breathing. If material has been swallowed and the exposed person is conscious, give water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute, and delayed Potential acute health effects

Skin contact: May cause sensitization of susceptible people.

Over-exposure signs/symptoms

Skin contact: Repeated contact may cause allergic reactions in very susceptible people. Avoid Repeat exposure

Ingestion: Repeated ingestion may cause damage to kidneys. Avoid Repeat Exposure

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, CO2, or dry powder. Unsuitable extinguishing media: No information available

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

Methods and materials for containment and cleaning up:

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor.

## 7. HANDLING AND STORAGE

Handle as if capable of transmitting a disease. Use PPE. Avoid contact with skin, eyes, and clothing. Wear appropriate protective clothing (Section 8).

Keep container tightly closed, and in a cool, well-ventilated area. Store at 2-8°C.

Precautions for safe handling:

Protective measures: Put on appropriate personal protective equipment (see Section 8)

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Follow good laboratory practices using universal and standard precautions. In accordance with Universal Precautions, gloves, masks, and gowns should be worn if handling the material. Do not pipette by mouth.

Sodium Azide:

ACGIH TLV: Ceiling: 0.29 mg/m<sup>3</sup> Ceiling: 0.11 ppm OSHA PEL: Not applicable.

NIOSH REL: Ceiling: 0.3 mg/m<sup>3</sup>, Ceiling: 0.1 ppm

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: Not available.

Odor: Not available.  
Odor threshold pH: Not available.  
Melting point: Not available.  
Boiling point: Not available.  
Flash point: Not available.  
Burning time: Not applicable.  
Burning rate: Not applicable  
Evaporation rate: Not available.  
Flammability (solid, gas): Not available.  
Lower and upper explosive (flammable) limits: Not available.  
Vapor pressure: Not available.  
Vapor density: Not available.  
Relative density: Not available.  
Solubility: Soluble in water or aqueous buffers.  
Partition coefficient: Not available.  
Auto-ignition temperature: Not available.  
Decomposition temperature: Not available.  
SADT: Not available.  
Viscosity: Not available.

## 10. STABILITY AND REACTIVITY

Reactivity: None known  
Chemical stability: Stable under normal conditions  
Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.  
Conditions to avoid: No information available  
Incompatible materials: Oxidizing agents, Bases, Reducing agents, Nitrates  
Hazardous decomposition products: Under fire conditions

## 11. TOXICOLOGICAL INFORMATION

Information on toxicology effects:  
Acute toxicity: Not available Irritation/Corrosion: Not available. Sensitization: Not available.  
Mutagenicity: Not available. Carcinogenicity: Not available. Reproductive toxicity: Not available.  
Teratogenicity: Not available.  
Specific target organ toxicity (single exposure): Not available. Specific target organ toxicity (repeated exposure): Not available. Aspiration hazard: Not available.  
Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated

## 12. ECOLOGICAL INFORMATION

Data not yet available.

## 13. DISPOSAL CONSIDERATIONS

Disposals should be made in accordance with existing procedure and protocols currently in place. Observe all federal, state, and local regulations pertaining to waste disposal.

## 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

US Federal Regulations

This mixture is not listed on the TSCA Inventory. This substance is not SARA listed.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs): Not listed  
Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed  
DEA List I Chemicals (Precursor Chemicals): Not listed  
DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304:

Composition/information on ingredients: No products were found. SARA 304 RQ: Not applicable.

SARA 311/312:

Classification: Not applicable.

Composition/information on ingredients: No products were found. State regulations:

California Prop65: Not listed

International regulations:

EU REACH: Not listed

## 16. OTHER INFORMATION

The information provided on the Safety Data Sheet is to the best of our knowledge, information, and belief at the time of its publication. The information given is designed to be used as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. Conditions of use and suitability of the product for particular uses are beyond our control; therefore, the user assumes all risks of use of the product.

## 1. PRODUCT INFORMATION

Product Name: Chromogen Component A and B

## 2. HAZARDS IDENTIFICATION

GHS Classification of the substance or mixture

Acute Toxicity - Oral	Category 3
Acute Toxicity - Skin	Category 3
Acute Toxicity - Inhalation	Category 3

### GHS label elements

#### Pictogram:



#### Signal word: **Danger** Hazard statements:

H301 - Toxic if swallowed

H311 – Toxic in contact with skin H331 - Toxic if inhaled **Precautionary statements:**

P264 – Wash hands thoroughly after handling.

P270 – Do not eat, drink, or smoke when using this product P280 Wear protective gloves/ eye protection/ face protection

P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P362 – Take off contaminated clothing and wash before reuse.

P260 – Do not breathe dust/fume/gas/mist/vapors/spray. P405 – Store locked up.

P404 + P233 – Store in a well-ventilated place. Keep container tightly closed. P501 – Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified: None known.

## 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

4- Amino -N, N-Dimethylphenidate	N/G	99-98-9
H2O2	<0.05%	7722-84-1

## 4. FIRST AID MEASURES

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction Get medical attention if symptoms occur. If symptoms persist, consult a physician.

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: Remove victims to fresh air and keep at rest in a comfortable position for breathing. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. Remove victims to fresh air and keep resting in a comfortable position for breathing. If material has been swallowed and the exposed person is conscious, give water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute, and delayed Potential acute health effects

Skin contact: May cause sensitization of susceptible people.

Over-exposure signs/symptoms

Skin contact: Repeated contact may cause allergic reactions in very susceptible people. Avoid Repeat exposure

Ingestion: Repeated ingestion may cause damage to kidneys. Avoid Repeat Exposure

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

## 5. FIREFIGHTING MEASURES

Suitable extinguishing media: dry powder, carbon dioxide or alcohol- resistant foam.

Unsuitable extinguishing media: Avoid using too strong water vapor to extinguish the fire because it may spread and disperse the flames

Specific hazards arising from the chemical: Toxic fumes may be released when burned. When heated, the container may explode. Containers exposed to fire may leak content through pressure relief valves.

Exposure to heat or contact with flames can cause expansion or explosive decomposition.

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Ensure adequate ventilation Clear all ignition sources. Quickly evacuate personnel to safety, stay away from leak areas and in the direction of the upper wind, using personal traps. Avoid inhaling vapor, smoke, gas, or dust.

Environmental precautions: Take steps to prevent further leaks or spills while ensuring safety. Avoid emissions into the surrounding environment.

Methods and materials for containment and cleaning up:

In the case of a small amount of leakage, the leakage can be absorbed by dry sand or inert adsorption material, and the embankment control is required in the event of a large number of leaks. Attachments or

collectables should be stored in suitable closed containers and disposed of in accordance with relevant local laws and regulations. Remove all ignition sources and use fire-resistant flower tools and riot gear.

## 7. HANDLING AND STORAGE

Use only in areas provided with exhaust ventilation.

Operate in a well-ventilated area. Wear appropriate personal protective equipment. Avoid contact with the skin and into the eyes. Keep away from heat sources, sparks, open flames, and hot surfaces. Take measures to prevent the accumulation of static electricity.

Storage Precautions:

Keep the container closed. Store in a dry, cool, and ventilated place. Keep away from heat sources, sparks, open flames, and hot surfaces. Store away from incompatible materials and food containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Career exposure limits: No information available. Biological limits: No information available.

Monitoring methods: EN 14042 Workplace Air Procedure Guidelines for evaluating exposure to chemical or biological reagents. GBZ/T 160.1-GBZ/T 160.81-2004 Workplace Air Toxic Substance Determination (Series Standard).

Engineering control: Maintain adequate ventilation, especially in enclosed areas. Make sure you have eye washes and showers near your workplace. Use explosion-proof appliances, ventilation, lighting, and other equipment. Set up emergency evacuation channels and necessary spillways, Respiratory protection: If the vapor concentration exceeds the occupational exposure limit or if symptoms such as irritation occur, use a fully covered multi-function gas mask(US) or AXBEK type (EN 14387) gas mask tube.

Eye protection: Wear chemical goggles (in accordance with EU EN 166 or US NIOSH standards).

Body protection: Wear flame retardant anti-static protective clothing and anti-static protective boots.

Hand protection: Wear chemical protective gloves (e.g. butyl rubber gloves). Protective gloves that have been tested by the EU EN 374,US F739 or AS/NZS 2161.1 are recommended.

Other protections: Smoking, eating, and drinking are prohibited at the workplace. Work done, shower dressing. Maintain good hygiene practices.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: Light brown

Odor: Not available.

Odor threshold pH: Not available.

Melting point: Not available.

Boiling point: 262°C

Flash point: Not available.

Burning time: Not applicable.

Burning rate: Not applicable

Evaporation rate: Not available.  
Flammability (solid, gas): Not available.  
Lower and upper explosive (flammable) limits: Not available.  
Vapor pressure: Not available.  
Vapor density: Not available.  
Relative density: Not available.  
Solubility: Mixed with water  
Partition coefficient: Not available.  
Auto-ignition temperature: Not available.  
Decomposition temperature: Not available.  
SADT: Not available.  
Viscosity: Not available.

## 10. STABILITY AND REACTIVITY

Reactivity: None known  
Chemical stability: Stable under normal conditions Possibility of hazardous reactions: No information available Conditions to avoid: No information available  
Incompatible materials: No information available  
Hazardous decomposition products: Under normal storage and use conditions, no dangerous decomposition products are produced.

## 11. TOXICOLOGICAL INFORMATION

Information on toxicology effects:  
Acute toxicity: LC50 Oral - rat - 50 mg/kg Irritation/Corrosion: No information available. Sensitization: No information available.  
Mutagenicity: No information available. Carcinogenicity: No information available. Reproductive toxicity: No information available. Teratogenicity: No information available.  
Specific target organ toxicity (single exposure): No information available. Specific target organ toxicity (repeated exposure): No information available. Aspiration hazard: No information available.  
Conclusion/Summary: No information available.  
Numerical measures of toxicity  
Acute toxicity estimates: No information available.

## 12. ECOLOGICAL INFORMATION

Waste disposal method  
Products: If you need medical treatment, bring your product containers or labels with you.  
Unclean packaging: After the packaging is emptied, there may still be residual hazards, should be kept away from heat and fire sources, if possible, returned to the supplier recycling.  
Discard notes

See the Waste Disposal section.

### 13. DISPOSAL CONSIDERATIONS

Waste generation should be avoided or minimized wherever possible. Disposal of this product, its solutions, and any by-products must comply with all applicable environmental protection, waste disposal legislation, and local authority requirements. Surplus and non-recyclable materials should be disposed of through a licensed waste contractor. Do not discharge waste to the sewer unless fully compliant with regulatory requirements. Recycle packaging where possible.

Incineration or landfill should only be used if recycling is not feasible. Dispose of this material and its container safely. Empty containers or liners may retain product residues. Avoid dispersal of spilled material, runoff, and contact with soil, waterways, drains, or sewers.

### 14. TRANSPORT INFORMATION

United Nations Dangerous Goods Number (UN): 2811

United Nations transport name: organic toxic solids, not otherwise specified

United Nations Risk Classification: 6.1 Packaging category: 3

Packaging method: Threaded glass bottles, iron cap press glass bottles, plastic bottles, or metal buckets (cans) outside ordinary wooden boxes. Threaded glass bottles, plastic bottles, or tinned thin steel drums (cans) are filled with floorboard flower boxes, fiberboard boxes or plywood boxes. Plastic ring top layer cowhide outer fiberboard barrels, plywood barrels, cardboard barrels, plastic bags in accordance with the recommended method into the package.

Transportation attention is suspect

Mixing with acids, alkalis, oxidants, food, and food additives is strictly prohibited. In transit there should be sun-proof, rain-soaked, high-temperature protection. Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and leakage emergency treatment equipment. Before transport, check that the packaging container is complete and sealed. Hazard signs and announcements shall be posted on the means of transport in accordance with the relevant transport requirements.

### 15. REGULATORY INFORMATION

US Federal Regulations

This mixture is not listed on the TSCA Inventory. This substance is not SARA listed. Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs): Not listed

Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed  
DEA List I Chemicals (Precursor Chemicals): Not listed  
DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304:

Composition/information on ingredients: No products were found. SARA 304 RQ: Not applicable.

SARA 311/312:

Classification: Not applicable.

Composition/information on ingredients: No products were found. State regulations:

California Prop65: Not listed

International regulations:

EU REACH: Not listed

## 16. OTHER INFORMATION

The information provided on the Safety Data Sheet is to the best of our knowledge, information, and belief at the time of its publication. The information given is designed to be used as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. Conditions of use and suitability of the product for particular uses are beyond our control; therefore, the user assumes all risks of use of the product.

### 1. PRODUCT INFORMATION

Product Name: Counter Staining Reagent

### 2. HAZARDS IDENTIFICATION

GHS Classification of the substance or mixture

Serious eye damage/eye irritation	Category 1
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#### GHS label elements



**Pictogram:**

**Signal word: Danger**

**Hazard statements:**

H318 – Causes serious eye damage

**Precautionary statements:**

P304+P340+P312 – If INHALED: Remove person to fresh air and keep comfortable. Call a poison center or doctor if not feeling well.

P310 – Immediately call a POISON CENTER or doctor

P501 - Dispose of contents/container to an approved waste disposal plant. P264 – Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P321 - Specific treatment (see supplemental first-aid measures on this label).

P362 - Take off contaminated clothing.

P302+P352 - IF ON SKIN: wash with plenty of water.

P332+P313 - IF SKIN irritation occurs: Get medical advice/attention.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

### 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Hematoxylin	N/G	517-28-2
Aluminum Ammonium Sulfate	N/G	7784-25-0
Sodium Iodate	<0.05%	7681-55-2
Citric Acid	N/G	77-92-9
Choral Hydrate	N/G	302-17-0

#### 4. FIRST AID MEASURES

**Skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction Get medical attention if symptoms occur. If symptoms persist, consult a physician.

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation:** Remove victims to fresh air and keep at rest in a comfortable position for breathing. Get medical attention if symptoms occur.

**Ingestion:** Wash out mouth with water. Remove victims to fresh air and keep resting in a comfortable position for breathing. If material has been swallowed and the exposed person is conscious, give water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute, and delayed Potential acute health effects

Skin contact: May cause sensitization of susceptible people.

Over-exposure signs/symptoms

Skin contact: Repeated contact may cause allergic reactions in very susceptible people. Avoid Repeat exposure

Ingestion: Repeated ingestion may cause damage to kidneys. Avoid Repeat Exposure

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

#### 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: No information available

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur, and the container may burst.

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

Methods and materials for containment and cleaning up:

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor.

## 7. HANDLING AND STORAGE

Use only in area provided with exhaust ventilation. Avoid contact with skin, eyes, and clothing. Wear appropriate protective clothing (Section 8).

Keep container tightly closed, and in a cool, well-ventilated area. Store at 4°C.

Precautions for safe handling:

Protective measures: Put on appropriate personal protective equipment (see Section 8)

Advice on general occupational hygiene: Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibility: Do not store above the following temperature: +2°C to +8°C. Store in accordance with local regulations. Store in original containers protected from light in a dry, cool, and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Occupational exposure limits: Not available

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures:

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing.

Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dust. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection:

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

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: Clear

Odor: Not available.

Odor threshold pH: 9.0

Melting point: >135°C

Boiling point: Not available.

Flash point: Not available.

Burning time: Not applicable.

Burning rate: Not applicable

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Lower and upper explosive (flammable) limits: 2.29 kg/m<sup>3</sup> and 0.28 kg/m<sup>3</sup>

Vapor pressure: Not available.

Vapor density: Not available.

Relative density: p (20) 1.542 g/mL

Solubility: Soluble in water or aqueous buffers.

Partition coefficient: -1.72

Auto-ignition temperature: 1010

Decomposition temperature: Not available.

SADT: Not available.

Viscosity: Not available.

## 10. STABILITY AND REACTIVITY

Reactivity: None known

Chemical stability: Stable under normal conditions

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No information available

Incompatible materials: Oxidizing agents, Bases, Reducing agents, Nitrates

Hazardous decomposition products: Under fire conditions

## 11. TOXICOLOGICAL INFORMATION

Information on toxicology effects:

Acute toxicity: Not available Irritation/Corrosion: Not available.

Sensitization: May cause sensitization of susceptible persons. Mutagenicity: Not available.

Carcinogenicity: Not available. Reproductive toxicity: Not available. Teratogenicity: Not available.

Specific target organ toxicity (single exposure): Not available.

Specific target organ toxicity (repeated exposure): Oral – May cause damage to kidneys through prolonged or repeated exposure

Aspiration hazard: Not available.

Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects:

Eye contact: No known significant effects or critical hazards. Inhalation: No known significant effects or critical hazards. Skin contact: May cause sensitization of susceptible people.

Ingestion: May cause damage to kidneys with repeated exposure.

Symptoms related to the physical, chemical, and toxicological characteristics: Eye contact: No specific data.

Inhalation: No specific data. Skin contact: No specific data. Ingestion: No specific data.

Delayed and immediate effects. Also chronic effects from short- and long-term exposure. Short-term exposure: Not available.

Potential immediate effects: Not available. Potential delayed effects: Not available. Long term exposure: Not available.

Potential immediate effects: Not available.

Potential delayed effects: Repeated contact may cause allergic reactions in very susceptible people. Repeated ingestion may cause damage to kidneys.

Potential chronic health effects: Not available.

General: No known significant effects or critical hazards. Carcinogenicity: No known significant effects or critical hazards. Mutagenicity: No known significant effects or critical hazards. Teratogenicity: No known significant effects or critical hazards. Developmental effects: No known significant effects or critical hazards. Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates: Not available

## 12. ECOLOGICAL INFORMATION

Data not yet available.

## 13. DISPOSAL CONSIDERATIONS

Waste generation should be avoided or minimized wherever possible. Disposal of this product, its solutions, and any by-products must comply with all applicable environmental protection, waste disposal legislation, and local authority requirements. Surplus and non-recyclable materials should be disposed of through a licensed waste contractor. Do not discharge waste to the sewer unless fully compliant with regulatory requirements. Recycle packaging where possible.

Incineration or landfill should only be used if recycling is not feasible. Dispose of this material and its container safely. Empty containers or liners may retain product residues. Avoid dispersal of spilled material, runoff, and contact with soil, waterways, drains, or sewers.

## 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

US Federal Regulations

This mixture is not listed on the TSCA Inventory. This substance is not SARA listed. Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs): Not listed

Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed  
DEA List I Chemicals (Precursor Chemicals): Not listed  
DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304:

Composition/information on ingredients: No products were found. SARA 304 RQ: Not applicable.

SARA 311/312:

Classification: Not applicable.

Composition/information on ingredients: No products were found. State regulations:

California Prop65: Not listed

International regulations:

EU REACH: Not listed

## 16. OTHER INFORMATION

The information provided on the Safety Data Sheet is to the best of our knowledge, information, and belief at the time of its publication. The information given is designed to be used as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. Conditions of use and suitability of the product for particular uses are beyond our control; therefore, the user assumes all risks of use of the product.

### 1. PRODUCT INFORMATION

Product Name: Mounting Media

### 2. HAZARDS IDENTIFICATION

GHS Classification of the substance or mixture

Skin irritation	Category 2
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#### GHS label elements



**Pictogram:**

**Signal word: Danger**

**Hazard statements:**

H304 – May be fatal if swallowed and enters airways.

EUH066 – Repeated exposure may cause skin dryness or cracking.

**Precautionary statements:**

P210 – Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

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

P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331 – Do NOT induce vomiting.

P403+P235 – Store in a well-ventilated place. Keep cool.

### 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Hydrocarbons, C11-c13, ISOALKANES	60-80%	920-901-0
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#### 4. FIRST AID MEASURES

**Skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction Get medical attention if symptoms occur. If symptoms persist, consult a physician.

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation:** Remove victims to fresh air and keep at rest in a comfortable position for breathing. Get medical attention if symptoms occur.

**Ingestion:** Wash out mouth with water. Remove victims to fresh air and keep resting in a comfortable position for breathing. If material has been swallowed and the exposed person is conscious, give water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute, and delayed Potential acute health effects

Skin contact: May cause sensitization of susceptible people.

Over-exposure signs/symptoms

Skin contact: Repeated contact may cause allergic reactions in very susceptible people. Avoid Repeat exposure

Ingestion: Repeated ingestion may cause damage to kidneys. Avoid Repeat Exposure

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

#### 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, CO2, or dry powder. Unsuitable extinguishing media: Straight streams of water

Special hazards arising from the substance or mixture:

Hazardous by products of fire: Smoke, fume, incomplete combustion products, carbon oxides.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Advice for firefighters: Evacuate the area. Stay in danger area only with self-contained open-circuit compressed air breathing apparatus and a set for protecting the body from heat dissipation (fireproof clothing). Use water spray to cool fire exposed surfaces and to protect personnel.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: For non-emergency personnel: When disposing of small quantities use protective clothing. When disposing of large quantities use self-

contained open-circuit compressed air breathing apparatus or self-contained closed-circuit air breathing apparatus.

Secure a safety zone, remove all ignition sources, and in case of an accident inform the Emergency service and the manufacturer or sender. Position a prohibition sign with symbols of flame and devices that cause sparks.

Remove or neutralize all factors that may exacerbate the condition, use all allowed means of containing the situation and use recommended means of personal protection.

Environmental precautions: Use sand protective barrier to prevent further spillage of chemicals. Prevent environmental pollution by not allowing the chemicals to enter the sewage system, surface water or groundwater.

Methods and materials for containment and cleaning up:

Small/Large spill: Sand protective barrier or barriers made of similar materials. Sawdust, sand, mineral adsorbents. Secure proper ventilation. Contact the person responsible; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112).

## 7. HANDLING AND STORAGE

Keep away from sources of ignition and head. Do not use tools that cause sparks. Secure proper ventilation. Prevent spilling into the sewage system and waterways. Technical measures and storage conditions:

Keep in a cool and well-ventilated place. Keep away from heat and direct solar radiation. Precautions for safe handling:

Packaging materials:

Teflon, polypropylene, stainless steel, carbon steel. Requirements for storage rooms and vessels:

Keep away from food and drink. Keep the containers tightly closed. Store in a cool, well-ventilated area.

Advice for storage equipment:

The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.

Further information on storage conditions:

Suitable materials and coating are teflon, polypropylene, polyethylene, stainless steel, carbon steel.

Unsuitable materials and coatings include ethylene propylene diene monomer (EPDM), natural rubber, polystyrene, and butyl rubber.

Recommendations:

This product attracts static electricity that may cause electrical sparking (ignition source) that may ignite flammable vapors of the liquid. The liquid is usually an isolator if its conductivity level is under 100 pS/m. It is considered a semiconductor that attracts static electricity if its conductivity level is less than 10,000 pS/m. Regardless of the type of liquid (isolator or semiconductor), precautions are the same. Numerous factors, such as the liquid temperature, contaminants, antistatic additives, and filtration may severely influence the liquid conductivity.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits: 171ppm

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: Not available.

Odor: Not available.

Odor threshold pH: Not available.

Melting point: Not available.

Boiling point: 170-250°C

Flash point: 62°C

Burning time: Not applicable.

Burning rate: Not applicable

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Lower and upper explosive (flammable) limits: Not available.

Vapor pressure: Not available.

Vapor density: Not available.

Relative density: Not available.

Solubility: Soluble

Partition coefficient: Not available.

Auto-ignition temperature: >200° C

Decomposition temperature: Not available.

SADT: Not available.

Viscosity: Not available.

## 10. STABILITY AND REACTIVITY

Reactivity: No information available.

Chemical stability: The product is chemically stable under standard ambient conditions of storing and using (room temperature).

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Open flames and high energy ignition sources. Incompatible materials: Strong oxidants.

Hazardous decomposition products: Product decomposition will not occur at ambient temperature.

## 11. TOXICOLOGICAL INFORMATION

Information on toxicology effects:

Acute toxicity: Not available Irritation/Corrosion: Not available. Sensitization: Not available.

Mutagenicity: Not available.

Carcinogenicity: No carcinogenicity studies were made, but since the product is not mutagenic and causes a minimal level of toxicity, it can be assumed that chronic exposure will not cause tumors.

Reproductive toxicity: Not available.

Teratogenicity: Not available.

Specific target organ toxicity (single exposure): Not available. Specific target organ toxicity (repeated exposure): Not available. Aspiration hazard: Not available.

Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

## 12. ECOLOGICAL INFORMATION

Data not yet available.

## 13. DISPOSAL CONSIDERATIONS

Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection. Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.

European Waste Code: 08 XX XX

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

Empty Container Warning: Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractors and in accordance with governmental regulations. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death.

## 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

US Federal Regulations

This mixture is not listed on the TSCA Inventory. This substance is not SARA listed.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs): Not listed

Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals): Not listed  
DEA List II Chemicals (Essential Chemicals):  
Not listed

SARA 302/304:

Composition/information on ingredients: No products were found. SARA 304 RQ: Not applicable.

SARA 311/312:

Classification: Not applicable.

Composition/information on ingredients: No products were found. State regulations:

California Prop65: Not listed

International regulations:

EU REACH: Not listed

## 16. OTHER INFORMATION

The information provided on the Safety Data Sheet is to the best of our knowledge, information, and belief at the time of its publication. The information given is designed to be used as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. Conditions of use and suitability of the product for particular uses are beyond our control; therefore, the user assumes all risks of use of the product.