

Material Safety Data Sheet

Material name:

Wash Reagent A

ID: C-283

SECTION 1- Chemical Product and Company Identification

Manufacturer Information

Microarrays Inc
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Huntsville, AL 35806

Phone: (256) 327-0544
Emergency # 24 Hr CHEMTREC U.S. (800) 424-9300
24 Hr CHEMTREC International (703) 527-3887

SECTION 2- Hazards identification

Emergency Overview

This product is a clear, non-flammable liquid with a salt-like odor. Prolonged contact with this product may cause slight irritation to the eyes, skin, respiratory, and gastrointestinal system. Use methods suitable to fight surrounding fire.

Potential Health Effects: Eyes

This product may be slightly irritating to the eyes.

Potential Health Effects: Skin

Prolonged or repeated contact may cause slight skin irritation.

Potential Health Effects: Ingestion

Ingestion of large amounts may cause irritation of the mouth, throat, stomach, and gastrointestinal tract.

Potential Health Effects: Inhalation

At room temperature, inhalation exposure is unlikely due to the physical properties of this material. Higher temperature may generate vapor levels sufficient to cause irritation.

HMIS Ratings: Health: 1 Fire: 0 Physical Hazard: 0 Pers. Prot.: gloves, goggles

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

SECTION 3- Composition / Information on Ingredients

CAS #	Component	Percent
7732-18-5	Water	70-90
7647-14-5	Sodium chloride	10-20
6132-04-3	Citrate, sodium, dihydrate	5-10

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under the criteria specified in 29 CFR 1910.1200 (Hazard Communication).

This product is considered a controlled product under the Canadian Controlled Products Regulations.

SECTION 4- First aid measures

First Aid: Eyes

Immediately flush eyes with copious amounts of water. Seek medical attention if irritation persists.

First Aid: Skin

Wash area of contact thoroughly with soap and water. Seek medical attention if symptoms develop or persist. Launder contaminated clothing before reuse.

First Aid: Ingestion

No need for first aid is anticipated. However, if the material is swallowed in large amounts, get immediate medical attention. Do not induce vomiting.

First Aid: Inhalation

If inhaled, remove person to fresh air. If symptoms develop or persist, get medical attention.

SECTION 5 - Fire fighting measures

General Fire Hazards

See Section 9 for Flammability Properties.

Not expected to be a fire hazard.

Hazardous Combustion Products

Irritating and/or toxic fumes and gases may be released upon combustion.

Extinguishing Media

Use methods for the surrounding fire.

Fire Fighting Equipment/Instructions

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

NFPA Ratings: Health: 2 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

SECTION 6 - Accidental release measures

Containment Procedures

Contain the discharged material.

Clean-Up Procedures

Clean-up personnel should wear suitable protective equipment. Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Flush area with water to remove trace residue.

Evacuation Procedures

Keep unnecessary personnel away.

Special Procedures

Clean up and dispose of waste in accordance with all Federal, State and local regulations.

SECTION 7 - Handling and Storage

Handling Procedures

Avoid contact with skin and eyes. Avoid inhalation of mists or vapors. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Mix well before using.

Storage Procedures

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

SECTION 8 - Exposure controls / Personal protection

Exposure Guidelines

A: General Product Information

No exposure limits are available for this product, however, limit exposure to a minimum.

B: Component Exposure Limits

ACGIH, OSHA, NIOSH or the provinces of Canada have not developed exposure limits for any of this product's components.

Engineering Controls

Use local exhaust ventilation to keep exposures to a minimum.

PERSONAL PROTECTIVE EQUIPMENT Personal Protective Equipment: Eyes/Face

Wear chemical goggles; use face shield if splashing is possible.

Personal Protective Equipment: Skin

Use impervious gloves when handling.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of vapor or mist appropriate NIOSH respirator protection must be provided.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

SECTION 9 - Physical and Chemical properties

Appearance: Clear

Physical State: Liquid

Vapor Pressure: Not determined

Boiling Point: Not determined

Solubility (H₂O): Not applicable

Particle size: Not applicable

Molecular Weight: Mixture

Auto Ignition: Not available

Flash Point Method: Not determined

Upper Flammability Limit (UFL): Not determined

Odor: Salt

pH: 6.8

Vapor Density: Not determined

Melting Point: Not determined

Freezing Point: Not determined

Softening Point: Not applicable

Density: 1.1 gm/cm³

Flash Point: Not available

Lower Flammability Limit (LFL): Not determined

OSHA Flammability Classification: Non-flammable

SECTION 10 - Chemical stability and reactivity information

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

Keep away from high temperatures and incompatible materials.

Incompatibility

Avoid contact with strong oxidizing agents and strong acids.

Hazardous Decomposition

Thermal decomposition may produce irritating and toxic fumes and gases.

Possibility of Hazardous Reactions

Will not occur.

SECTION 11 - Toxicological information

Acute Dose Effects

A: General Product Information

Prolonged contact with this product may cause slight irritation to the eyes, skin, respiratory and gastrointestinal systems.

B: Component Analysis - LD50/LC50

Sodium chloride (7647-14-5)

Inhalation LC50 Rat: >42 g/m³/1H; Oral LD50 Rat: 3 g/kg; Dermal LD50 Rabbit: >10 g/kg

Carcinogenicity

A: General Product Information

No information available for product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP

SECTION 12 - Ecological information

Ecotoxicity

A: General Product Information

No information available for product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data area available for this product's components.

SECTION 13 - Disposal considerations

US EPA Waste Number & Descriptions

A: General Product Information

You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Waste must be handled in accordance with all federal, state, provincial, and local regulations.

See Section 7 for Handling Procedures.

See Section 8 for Personal Protective Equipment recommendations.

SECTION 14 - Transportation information

US DOT Information

Shipping Name: Not regulated as a hazardous material.

TDG Information

Shipping Name: Not regulated as a dangerous good.

SECTION 15 - Regulatory information

US Federal Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Canadian WHMIS Information

A: General Product Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by CPR.

WHMIS Classification:

Class D2B: Toxic Material

B: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL

Additional Regulatory Information

A: General Product Information

No additional information

B: Component Analysis - Inventory

CAS #	Component	TSCA	DSL	EINECS
7732-18-5	Water	Yes	Yes	Yes
7647-14-5	Sodium chloride	Yes	Yes	Yes
6132-04-3	Citrate, sodium, dihydrate	No	No	No

SECTION 16 - Other information

Other Information

Reasonable care has been taken in the preparation of this information, but Microarrays Inc makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. Microarrays Inc makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

MSDS History

New MSDS. 3/8/2012. All information as detailed by original manufacturer Corning Inc. - Life Sciences, Big Flats, NY 14814

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. CFR = Code of Federal Regulations. DSL = Canadian Domestic Substance List. EINECS = European Inventory of New and Existing Chemical Substances. EPA = Environmental Protection Agency. HEPA = High Efficiency Particulate Air. HMIS = Hazardous Material Identification System. IARC = International Agency for Research on Cancer. NFPA = National Fire Protection Association. NIOSH = National Institute of Occupational Safety and Health. NJTSR = New Jersey Trade Secret Registry. NTP = National Toxicology Program. OSHA = Occupational Safety and Health Administration. NA = Not available or Not Applicable. SARA = Superfund Amendments and Reauthorization Act. TLV = Threshold Limit Value. TSCA = Toxic Substance Control Act. WHMIS = Workplace Hazardous Materials Information System.