

Material Safety Data Sheet

Material name:

Wash Reagent B

ID: C-282

SECTION 1- Chemical Product and Company Identification

Manufacturer Information

Microarrays Inc
601 Genome Way
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 soap-like odor. May be harmful if swallowed. This product is irritating to the eyes and skin. Product may cause allergic skin and respiratory reactions. Use methods suitable to fight surrounding fire.

Potential Health Effects: Eyes

Liquid and vapors may cause moderate eye irritation. Symptoms can include irritation, redness, and tearing.

Potential Health Effects: Skin

Contact with skin may cause moderate skin irritation along with allergic skin sensitization.

Potential Health Effects: Ingestion

May be harmful if swallowed. Ingestion can cause irritation of the mouth, throat and stomach along with abdominal discomfort.

Potential Health Effects: Inhalation

Inhalation of vapors or mists of the product may be irritating to the respiratory system. Continued overexposure may produce symptoms of dizziness, weakness, fatigue, nausea and headache. Repeated inhalation of mists or vapors of this product may result in allergic lung sensitization reactions.

HMIS Ratings: Health: 2* 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	85-95
151-21-3	Sodium lauryl sulfate	7-13

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 water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

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

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.

Non-flammable but may burn at elevated temperatures.

Hazardous Combustion Products

Irritating and/or toxic products of combustion include carbon dioxide, carbon monoxide, and sulfur oxides.

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. Cool fire-exposed containers with water.

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.

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; face shield if splashing is possible.

Personal Protective Equipment: Skin

Use impervious gloves when handling. Use of protective coveralls and long sleeves is recommended to prevent skin contact.

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, colorless

Physical State: Liquid

Vapor Pressure: Not determined

Boiling Point: Not determined

Solubility (H₂O): Not available

Softening Point: Not applicable

Density: 1 gm/cm³

Flash Point: Not available

Lower Flammability Limit (LFL): Not available

OSHA Flammability Classification: Non-flammable

Odor: Soap

pH: 5.5

Vapor Density: Not determined

Melting Point: Not determined

Freezing Point: Not determined

Molecular Weight: Mixture

Auto Ignition: Not available

Flash Point Method: Not available

Upper Flammability Limit (UFL): Not available

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 carbon monoxide, carbon dioxide and sulfur containing gases.

Possibility of Hazardous Reactions

Will not occur.

SECTION 11 - Toxicological information

Acute Dose Effects

A: General Product Information

May be harmful if swallowed. This product is irritating to the eyes and skin. Product may cause allergic skin and respiratory reactions.

B: Component Analysis - LD50/LC50

Sodium lauryl sulfate (151-21-3)

Inhalation LC50 Rat: >3900 mg/m³/1H; Oral LD50 Rat: 1288 mg/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

Teratogenicity

This product contains a substance(s) that is a possible reproductive hazard. This information is based on high dose tests on laboratory animals.

SECTION 12 - Ecological information

Ecotoxicity

A: General Product Information

No information available for product. Contains a component that is toxic to aquatic life.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Sodium lauryl sulfate (151-21-3)

Test / Species		Conditions
96 Hr LC50 Pimephales promelas	10.2 mg/L	fry
96 Hr LC50 Pimephales promelas	17 mg/L	juvenile
96 Hr LC50 Pimephales promelas	22.5 mg/L	adult
96 Hr LC50 Oncorhynchus mykiss	4.6 mg/L	static
5 min EC50 Photobacterium phosphoreum	3.5 mg/L	
15 min EC50 Photobacterium phosphoreum	1.6 mg/L	
30 min EC50 Photobacterium phosphoreum	1.2 mg/L	
48 Hr EC50 Daphnia magna (water flea)	6.2 mg	

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 D2A: Very Toxic Material

Class D2B: Toxic Material

B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

CAS #	Component	Minimum concentration
151-21-3	Sodium lauryl sulfate	1%

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
151-21-3	Sodium lauryl sulfate	Yes	Yes	Yes

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. 2/14/2012. 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.