

SAFETY DATA SHEET



Wash buffer 2 (WB2)

Version 1.1

Revised: October 31, 2019

SECTION 1. IDENTIFICATION

Product name Wash Buffer 2 (WB2)

Manufacturer or supplier's details

Company Impact Proteomics, LLC

Telephone (512) 815-2067

Responsible Department Impact Proteomics, LLC
1406 Browning Rd.
Pittsburgh PA USA
Tel: (512) 815-2067

Email address info@impactproteomics.com

Emergency telephone 1-800-255-3924
ChemTel Chemical Emergency Response Hotline

Recommended use of the chemical and restriction on use

Recommended use Laboratory chemicals

SECTION 2. HAZARDS IDENTIFICATION

Classification according to regulation (EC) No. 1272/2008 [CLP]

H225	Flammable liquids (Category 2)
H302	Accute toxicity, oral (Category 4)
H332	Acute toxicity, inhalation
H319	Eye irritation (Category 2A)

GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)	
H225	Highly flammable liquid and vapor
H302 + H332	Harmful if swallowed or if inhaled
H319	Causes serious eye irritation

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Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash skin thoroughly after handling
P270	Do not eat, drink, or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P330	Rinse mouth
P337 + P313	If eye irritation persists: Get medical advice/attention
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P403 + P235	Store in a well ventilated place. Keep cool.
P501	Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture	Mixture
Substance Name	Wash buffer 2 (WB2)

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Hazardous components

<u>Component</u>	<u>Classification</u>	<u>Concentration</u>
Acetonitrile CAS-No. 75-05-8 EC-No 200-835-2 Index-No. 608-001-00-3	Flame. Liq. 2; Acute Tox. 4; Eye Irrit. 2A; H225, H302 + H312 + H332 + H319	75%

SECTION 4. FIRST AID MEASURES

General advice	Show this material safety data sheet to the doctor in attendance
If inhaled	Move to fresh air. If symptoms persist, call a physician
In case of skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person
Most important symptoms and effects, both acute and delayed	May cause mild irritation to areas of contact
Notes to physician	Specific treatment (Wash areas of contact with water).

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Specific hazards during fire fighting	Highly flammable liquid and vapor
Hazardous combustion products	No hazardous combustion products are known
Specific extinguishing methods	In the event of fire and/or explosion do not breathe fumes
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye protection
Methods and materials for containment and cleaning up	Keep in suitable, close containers for disposal

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	Normal measures for preventive fire protection
Advice on safe handling	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with work place control parameters

<u>Component</u>	<u>Limit Type</u>	<u>Country</u>	<u>Exposure limit</u>	<u>Information Source</u>
Acetonitrile CAS-No. 75-05-8	TWA	USA	40 ppm TWA 70 mg/m ³ TWA	US – OSHA – Final PELs – Time weighted averages

Exposure Controls

Engineering controls	No specific controls are needed. Normal room ventilation is adequate
Respiratory Protection	No specific controls are needed. Normal room ventilation is adequate
Skin Protection	Wear protective gloves and eye protection
Eye Protection	Wear protective gloves and eye protection

Personal protective equipment

Wear protective gloves and eye protection

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Eye protection	Safety glasses
Skin and body protection	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals.
Hygiene measures	Keep away from food and drink. When using do not eat, drink, or smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear/colorless
Physical state	Liquid
Odor	Odorless
Odor Threshold	Does not apply
pH	8
Melting point/range	No data available
Boiling point/range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid gas)	Not applicable as the mixture is a liquid
Explosion limits	No data available
Solubility in water	No data available
Explosive properties	No data available
Oxidizing properties	No data available

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SECTION 10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions of use and storage
Chemical stability	When stored at room temperature the product is stable
Possibility of hazardous reactions	No known hazardous reactions
Conditions to avoid	Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed
Incompatible materials	No data available
Hazardous decomposition products	May emit irritating fumes when heated to decomposition

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity – oral exposure	Toxic if swallowed. Do not eat, drink or smoke when using this product. IF SWALLOWED: Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Rinse mouth. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.
Irritation	Irritant to skin and mucous membranes. Irritating to eyes
Corrositivity	Not applicable
Sensitisation	No sensitizing effects known
Repeated dose toxicity	No data available
Carcinogenicity	Not applicable
Mutagenicity	Suspected of causing genetic defects. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations
Toxicity for reproduction	Not applicable.

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Specific Target Organ Toxicity from single exposure	Causes damage to organs. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.
Specific Target Organ Toxicity from Repeated Exposure	May cause damage to organs through prolonged or repeated exposure. Do not breathe dust, fumes or mist. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations
Aspiration hazard	Not applicable
Additional toxicology information	Data not available

SECTION 12. Ecological Information

Toxicity	Contains a substance which is toxic to aquatic organisms. Avoid release to the environment. Dispose of contents in accordance with local, state, federal, and international regulations.
Persistence and degradability	Data not available
Bioaccumulative potential	Data not available
Mobility in soil	Data no available
Results of PBT and vPVB assessment	No information available
Other adverse effects	None known

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from residues/unused product	Wash down a foul water drain with water. Wipe up any spills of the solution with absorbent material and water. Dispose of absorbent material in the normal waste.
Contaminated packaging	Rinse with water and dispose of in normal waste according to local regulations. Recycle where appropriate facilities are available.

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SECTION 14. TRANSPORT INFORMATION

Transportation by land – Department of Transportation (DOT, United States of America)

UN number UN1648
UN proper shipping name Acetonitrile Solution
Transport hazard class 3
Packaging group II
Hazard Placard Labels:



Transportation by air – International Air Transport Association (IATA)

UN number UN1648
UN proper shipping name Acetonitrile Solution
Transport hazard class 3
Packaging group II
Hazard Placard Labels:



SECTION 15. REGULATORY INFORMATION

Occupational Safety and Health Administration Hazards
Not listed

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 313 Toxic Release Inventory (TRI)
Acetonitrile (CAS #75-05-8): 1.0% de minimis concentration

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Massachusetts Right-to-Know substance list

Acetonitrile (CAS # 75-05-8): Present

Pennsylvania Right-to-Know Hazardous Substances

Acetonitrile (CAS # 75-05-8): Environmental hazard

Acetonitrile (CAS # 75-05-8): Present

New Jersey Worker and Community Right-to-Know Components

Acetonitrile (CAS # 75-05-8): flammable - third degree

Acetonitrile (CAS # 75-05-8): sn 0008

Acetonitrile (CAS # 75-05-8): SN 0008 TPQ: 500 lb

Acetonitrile (CAS # 75-05-8): SN 2308 TPQ: 500 lb (Category Code N106, listed under Cyanide)

Acetonitrile (CAS # 75-05-8): sn 2308; sn 0553

California Proposition 65

Not listed.

Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Acetonitrile (CAS # 75-05-8): Present

United States of America Toxic Substances Control Act (TSCA) List

Acetonitrile (CAS # 75-05-8): Present

European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Not listed.

SECTION 16. OTHER INFORMATION

16.1. Full Text of Hazard Statements and Precautionary Statements

Highly flammable liquid and vapor. Toxic if swallowed. Suspected of causing genetic defects. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves and eye protection.

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IF SWALLOWED: Immediately call a POISON CENTER or physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF exposed: Call a POISON CENTER or physician. Get medical attention if you feel unwell. Specific treatment (Wash areas of contact with water). Rinse mouth. In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.

Store in a well-ventilated place. Keep cool. Store locked up.

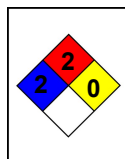
Dispose of contents in accordance with local, state, federal and international regulations.

Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class:	Not Applicable.
Physical Hazards Not Otherwise Classified (PHNOC):	Not applicable
Health Hazards Not Otherwise Classified (HHNOC):	Not applicable
Biohazardous Infectious Materials Hazard Class:	Not applicable

National Fire Protection Association (NFPA) Rating

Health:	2
Flammability:	2
Reactivity:	0
Special Hazard:	



Document Revision

Last Revision Date: 10/31/2019

Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative;

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DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods

DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and Impact proteomics, LLC. assumes no legal responsibility or liability whatsoever resulting from its use.