

SAFETY DATA SHEET

SYNBIONT® Ag Wash

Prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200 (2024 revision, GHS Rev. 7), Appendix D

SDS revision date	September 10, 2026
Revision number	04
Supersedes	Revision 03, May 29, 2026

SECTION 1: IDENTIFICATION

Product identifier	SYNBIONT® Ag Wash
Other means of identification	Concentrate packaged in 1 gal, 5 gal and 55 gal containers. This SDS covers the concentrate; diluted use-solution is less hazardous.
Recommended use	Concentrated cleaner for hard, non-porous surfaces, equipment, trailers, stalls, barns and animal housing in agricultural settings. Dilute with water per label directions (typical 2.5 oz per gallon, 1:50) before use.
Restrictions on use	Cleaning use only. This product is not registered under FIFRA and is not to be used, marketed or represented as a sanitizer, disinfectant or pesticide. Do not mix with chlorine bleach, other hypochlorite products or strong oxidizers. Use only as directed on the product label.
Manufacturer / supplier	EQ Ag Solutions LLC DBA Synbiont Global
Address	PO Box 306, Ruskin, FL 33575, USA
Telephone (information)	1-888-641-7218 or 1-813-641-7917 (Monday to Friday, 8 AM to 5 PM Eastern)
Website / email	synbiontglobal.com; chris@synbiontglobal.com
Emergency telephone	1-888-641-7218 (business hours). Medical emergency: Poison Control 1-800-222-1222 (USA, 24 hours).

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the mixture (29 CFR 1910.1200, Appendix A), based on GLP toxicology studies conducted on this formulation (see Section 11):

Hazard class	Category	Hazard statement
Serious eye damage / eye irritation	Category 2B	H320: Causes eye irritation
Acute toxicity, oral	Not classified	LD50 > 5,000 mg/kg (rat)
Acute toxicity, dermal	Not classified	LD50 > 5,050 mg/kg (rat)
Skin corrosion / irritation	Not classified	Primary irritation index 1.0 (rabbit), below Category 2 cutoff
All other physical, health and environmental hazard classes	Not classified	Criteria not met or no data indicating a hazard

Signal word	WARNING
Pictogram	None required for Category 2B eye irritation.
Hazard statement	H320: Causes eye irritation.
Precautionary statements	P264: Wash hands and any exposed skin thoroughly after handling. 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. Concentrate is acidic (pH approx. 2.3 to 3.8); prolonged or repeated skin contact with the concentrate may cause dryness or mild redness.
Ingredients of unknown acute toxicity	None. Acute oral and dermal toxicity were measured on the mixture itself.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture. Aqueous solution of anionic surfactants and lactic acid.

Chemical name	Common name / synonyms	CAS No.	Concentration (% w/w)
Benzenesulfonic acid, C10-16-alkyl derivs., sodium salts	Sodium linear alkylbenzene sulfonate; sodium dodecylbenzenesulfonate (sodium LAS)	68411-30-3	7 to 13%*
Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt	Sodium 2-ethylhexyl sulfate	126-92-1	5 to 10%*
Lactic acid	2-Hydroxypropanoic acid	79-33-4	1 to 5%*
Water	Purified water	7732-18-5	Balance

*The exact concentration of each ingredient is withheld as a trade secret. Concentrations are stated using the ranges prescribed by 29 CFR 1910.1200(i)(1)(iv). The specific chemical identity and exact percentage will be disclosed to health professionals, employees and designated representatives as required by 29 CFR 1910.1200(i)(2) through (i)(4).

Note: the alkylbenzene sulfonic acid used in manufacture is fully neutralized with sodium hydroxide during batching. Neither free sulfonic acid nor free sodium hydroxide is present in the finished product above 0.1%.

SECTION 4: FIRST-AID MEASURES

Eye contact	Immediately rinse eyes with clean, lukewarm water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do, then continue rinsing. If irritation persists after rinsing, get medical attention.
Skin contact	Wash with soap and plenty of water. Remove contaminated clothing and wash before reuse. Get medical attention if irritation develops or persists.
Inhalation	Not an expected route of exposure (non-volatile aqueous solution). If mist or spray is inhaled and discomfort occurs, move to fresh air. Get medical attention if symptoms persist.
Ingestion	Rinse mouth with water. Do not induce vomiting. Give a glass of water to drink if the person is conscious. Never give anything by mouth to an unconscious person. Call a Poison Control Center or doctor if you feel unwell.
Most important symptoms and effects, acute and delayed	Eye contact with concentrate: redness, swelling of the conjunctiva, discomfort; effects in the rabbit study fully resolved within 7 days. Skin: transient mild redness with prolonged contact. Ingestion of large amounts may cause gastrointestinal discomfort. No delayed effects known.
Indication of immediate medical attention and special treatment	Treat symptomatically. No specific antidote.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Product is an aqueous solution and does not burn. Use water spray, foam, dry chemical or CO ₂ as appropriate for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Not flammable. Containers may rupture if heated. Thermal decomposition may release oxides of carbon and sulfur and irritating fumes.
Special protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and full protective clothing when fighting fires involving chemicals.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Wear eye protection and gloves (Section 8). Avoid contact with eyes. Spilled product is slippery; prevent slips and falls. Ventilate the area if mist is generated.
Environmental precautions	Prevent large quantities of concentrate from entering storm drains, surface water or soil. Surfactants may be harmful to aquatic life in concentrated form.
Methods and materials for containment and cleaning up	Small spills: absorb with inert material (sand, vermiculite, absorbent pads), place in a labeled container for disposal, then rinse the area with water. Large spills: dike and pump into containers for recovery or disposal. Dilute residue with water; product is water-soluble.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with eyes. Avoid prolonged skin contact with concentrate. Do not breathe mist or
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	spray. Wash hands after handling. Keep container closed when not in use. Do not mix with chlorine bleach, hypochlorite sanitizers or strong oxidizers.
Conditions for safe storage, including incompatibilities	Store in the original, closed container in a cool, dry, well-ventilated area, out of direct sunlight. Protect from freezing; if frozen, thaw and mix thoroughly before use. Store away from oxidizers, hypochlorites and strong bases. Storage temperature 40 to 100 deg F (4 to 38 deg C) recommended. Keep out of reach of children.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits: No OSHA PEL, ACGIH TLV or NIOSH REL has been established for any component of this product.

Appropriate engineering controls	General ventilation is adequate for normal use. Provide local exhaust where spraying generates mist. Eyewash facilities should be available where concentrate is handled.
Eye / face protection	Safety glasses with side shields or chemical splash goggles when handling or diluting the concentrate, or where splashing is possible.
Skin protection	Chemical-resistant gloves (nitrile, neoprene or natural rubber) for prolonged or repeated contact with concentrate. Ordinary work clothing is adequate; wash contaminated clothing before reuse.
Respiratory protection	Not normally required. If mist is generated in a poorly ventilated space and causes discomfort, use a NIOSH-approved particulate respirator.
General hygiene considerations	Wash hands after handling and before eating, drinking, smoking or using the restroom. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Physical state	Liquid
Color	Pale yellow, clear
Odor	Slight, characteristic; no odor threshold determined
Melting point / freezing point	Approx. 0 deg C (32 deg F), water-based
Boiling point or initial boiling point and boiling range	Approx. 100 deg C (212 deg F)
Flammability	Not flammable (aqueous solution)
Lower and upper explosion limit / flammability limit	Not applicable
Flash point	None; does not flash below boiling point
Auto-ignition temperature	Not applicable
Decomposition temperature	Not determined
pH	2.3 to 3.8 (concentrate, as supplied). Measured value 2.83 on the lot used for toxicology testing (Stillmeadow, 2010). Diluted 1:50 use-solution: higher, not specified.
Kinematic viscosity	Not determined; water-like, low viscosity
Solubility	Completely miscible with water
Partition coefficient n-octanol/water (log value)	Not applicable (mixture)
Vapor pressure	Approx. 2.3 kPa at 20 deg C (as water)
Density and/or relative density	1.04 g/mL at 20 deg C (measured 1.0408 g/mL, Stillmeadow 2010); relative density approx. 1.04 (water = 1)
Relative vapor density	Not applicable
Particle characteristics	Not applicable (liquid)

Other information: VOC content, none (no volatile organic compounds intentionally added).

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions of use.
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Chemical stability	Stable under recommended storage and handling conditions.
Possibility of hazardous reactions	Hazardous polymerization will not occur. Mixing the acidic concentrate with chlorine bleach or other hypochlorite products can release chlorine gas.
Conditions to avoid	Freezing (product quality), excessive heat, mixing with incompatible materials.
Incompatible materials	Chlorine bleach and hypochlorites, strong oxidizing agents, strong bases (neutralize the lactic acid).
Hazardous decomposition products	None under normal use. Thermal decomposition may produce oxides of carbon and sulfur.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure: eye contact, skin contact, ingestion. Inhalation is unlikely (non-volatile aqueous solution) except as mist during spray application.

Product-specific data. The following GLP studies (40 CFR 160) were conducted by Stillmeadow, Inc., Sugar Land, TX, on this formulation (test article: Synbiont Fruit & Vegetable Wash, identical composition to this product):

Endpoint	Method / species	Result	Classification
Acute oral toxicity	OPPTS 870.1100 (UDP), rat, 5,000 mg/kg gavage. Study 14514-10, Dec 2010.	No mortality, no clinical signs, normal weight gain, no necropsy findings. LD50 > 5,000 mg/kg.	Not classified (Category 4 cutoff is 2,000 mg/kg)
Acute dermal toxicity	OPPTS 870.1200, rat, 5,050 mg/kg, 24 h occluded. Study 14515-10, Dec 2010.	No mortality, no clinical signs, no dermal irritation. LD50 > 5,050 mg/kg.	Not classified (Category 4 cutoff is 2,000 mg/kg)
Skin corrosion / irritation	OPPTS 870.2500, rabbit, 0.5 mL undiluted, 4 h semi-occluded. Study 14517-10, Dec 2010.	Very slight to well-defined erythema through 72 h, no edema, fully cleared by day 7. Primary Irritation Index 1.0 of 8.0 ("slightly irritating"; EPA Toxicity Category IV).	Not classified (GHS Category 2 requires mean erythema or edema of 2.3 or greater in 2 of 3 animals)
Serious eye damage / irritation	OPPTS 870.2400, rabbit, 0.1 mL undiluted, eyes rinsed at 24 h. Study 14516-10, Dec 2010.	Maximum average irritation score 17.3 at 24 h ("mildly irritating"). Conjunctival redness and chemosis in 3 of 3 and iritis in 2 of 3 animals at 24 to 48 h; no corneal opacity; all effects cleared by day 7 (EPA Toxicity Category III).	Category 2B (irritant, effects fully reversible within 7 days)
Acute inhalation toxicity	No study conducted.	Not expected to be hazardous; product has negligible vapor pressure.	Not classified (no data)
Respiratory or skin sensitization	No study conducted.	No data. No component is a known sensitizer.	Not classified (no data)
Germ cell mutagenicity	No study conducted.	No data.	Not classified (no data)
Carcinogenicity	No study conducted.	No component is listed as a carcinogen by NTP, IARC or OSHA.	Not classified
Reproductive toxicity	No study conducted.	No data.	Not classified (no data)
STOT, single exposure	No study conducted.	No effects observed in acute oral or dermal studies at limit doses.	Not classified
STOT, repeated exposure	No study conducted.	Repeated skin contact with concentrate may cause dryness.	Not classified (no data)
Aspiration hazard	Not applicable.	Aqueous solution, low viscosity, not a hydrocarbon.	Not classified

Symptoms related to physical, chemical and toxicological characteristics: see Section 4. Interactive effects: none known. Data basis note: the studies above were conducted in 2010 on a production lot of the same formulation; the current linear alkylbenzene sulfonic acid supplier differs from the 2010 supplier, but the chemical identity (linear C10-C16 alkylbenzene sulfonate, sodium salt) and concentration are unchanged.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No product-specific aquatic toxicity data. Anionic surfactants (sodium LAS, sodium 2-ethylhexyl sulfate) are toxic to fish and aquatic invertebrates in concentrated form; toxicity is greatly reduced at use dilution. Lactic acid is of low aquatic toxicity but lowers pH in poorly buffered water.
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Persistence and degradability	No product-specific data. Linear alkylbenzene sulfonate, 2-ethylhexyl sulfate and lactic acid are readily biodegradable according to published supplier and literature data.
Bioaccumulative potential	No product-specific data. Components are not expected to bioaccumulate (water-soluble, low log Kow).
Mobility in soil	No data. Product is water-soluble and mobile in soil.
Other adverse effects	None known. Not a marine pollutant. Contains no ozone-depleting substances.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of unused product and rinsate in accordance with federal, state and local regulations. Small amounts of use-dilution may be discharged to sanitary sewer where permitted by the local authority. Do not discharge concentrate to storm drains or surface water. Triple-rinse empty containers and offer for recycling or dispose of in trash where permitted. This product, as sold, is not a RCRA-listed hazardous waste; the generator is responsible for waste characterization (40 CFR 262.11).

SECTION 14: TRANSPORT INFORMATION

Regulation	UN number	Proper shipping name	Hazard class	Packing group
US DOT (49 CFR)	Not regulated	Not regulated	None	None
IMDG (sea)	Not regulated	Not regulated	None	None
IATA / ICAO (air)	Not regulated	Not regulated	None	None

Environmental hazards	Not a marine pollutant. Not environmentally hazardous for transport.
Basis for non-regulated status	Not flammable; not a Class 8 corrosive (skin study 14517-10 showed no corrosion or severe irritation, and the product is not classified as a skin or eye corrosive); not acutely toxic; no other DOT hazard class applies.
Transport in bulk (IMO instruments)	Not applicable; not shipped in bulk by sea.
Special precautions	Keep from freezing. Secure containers upright to prevent leakage.

SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication Standard	This product is classified as hazardous under 29 CFR 1910.1200 (Serious eye damage/eye irritation, Category 2B). This SDS follows the 2024 revision of the standard (Appendix D).
FIFRA (7 U.S.C. 136 et seq.)	Not registered with US EPA as a pesticide. This product is sold and labeled as a cleaner only; no claims are made that it kills, controls or mitigates microorganisms or other pests (40 CFR 152.10). It must not be used or represented as a sanitizer or disinfectant.
TSCA (15 U.S.C. 2601)	All components are listed on the TSCA Chemical Substance Inventory or are exempt.
SARA Title III, Sections 311/312 (40 CFR 370.66)	Hazard category: Serious eye damage or eye irritation. Not classified for any other category.
SARA Title III, Section 313 (40 CFR 372)	This product contains no chemicals subject to Section 313 reporting at or above de minimis levels.
CERCLA (40 CFR 302.4)	No component has a CERCLA reportable quantity.
Clean Air Act Section 112	Contains no listed hazardous air pollutants.
California Proposition 65	This product does not contain any chemical known to the State of California to cause cancer, birth defects or other reproductive harm.
Ingredient regulatory status (informational; these are ingredient listings, not approvals of this product)	Sodium dodecylbenzenesulfonate and sodium 2-ethylhexyl sulfate: permitted for washing fruits and vegetables at not more than 0.2% each in wash water, followed by potable water rinse (21 CFR 173.315). Alkyl (C8-C24) benzenesulfonic acid sodium salts: listed as inert ingredients permitted in pesticide formulations applied to growing crops or raw agricultural commodities (40 CFR 180.910). Lactic acid: generally recognized as safe (GRAS) for use in food (21 CFR 184.1061).
State right-to-know	Consult applicable state lists. No component is listed on the Pennsylvania, New Jersey or Massachusetts hazardous substance lists at a reportable concentration to the best of our knowledge.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of revision	September 10, 2026
Revision number	04
Supersedes	Revision 03, May 29, 2026
Prepared by	EQ Ag Solutions LLC DBA Synbiont Global, Regulatory Affairs
Summary of changes in Revision 04	Reclassified using product-specific GLP toxicology data (Stillmeadow 14514-10, 14515-10, 14516-10, 14517-10). Acute toxicity oral and dermal Category 4 (H302, H312) and the GHS07 pictogram were removed; measured LD50 values exceed 5,000 mg/kg. Eye irritation Category 2B retained. Section 3 corrected to the substances present in the finished product (sodium salts of the surfactants; sodium hydroxide consumed in neutralization) and concentrations stated in the ranges prescribed by 29 CFR 1910.1200(i)(1)(iv). Section 9 updated to the property list required by the 2024 revision of Appendix D. Section 15 updated: FIFRA status stated; SARA 311/312 categories aligned to current 40 CFR 370.66; ingredient regulatory references verified against eCFR on September 10, 2026. Supplier legal name updated to EQ Ag Solutions LLC DBA Synbiont Global.
Key to abbreviations	CAS: Chemical Abstracts Service. GHS: Globally Harmonized System. GLP: Good Laboratory Practice. LD50: median lethal dose. OPPTS: EPA Office of Prevention, Pesticides and Toxic Substances test guideline. PEL/TLV/REL: permissible exposure limit / threshold limit value / recommended exposure limit. STOT: specific target organ toxicity. UDP: up-and-down procedure.
Data sources	Batch formulation records; Stillmeadow, Inc. GLP study reports (2010); supplier SDSs for components; 29 CFR 1910.1200 Appendices A and D; 21 CFR 173.315 and 184.1061; 40 CFR 180.910 (all checked on eCFR September 10, 2026).

Disclaimer: The information in this Safety Data Sheet is believed to be accurate as of the revision date and is provided in good faith. It relates only to the specific product identified and may not be valid where the product is combined with other materials or used in any process not described here. The information is intended as guidance for safe handling, use, storage, transportation and disposal and is not a warranty or quality specification. Users should make their own determination of suitability for their intended use.