SAFETY DATA SHEET

Polysorbate 20

Prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and GHS

SDS DATE	VERSION	PRODUCT CODE (SKU)	CAS NO.
11/03/2026	1.0 (Preliminary)	PLYSRBT20-16OZ	9005-64-5

SECTION 1: IDENTIFICATION

1.1 Product identifier

Product name	**Polysorbate 20**
Product code (SKU)	PLYSRBT20-16OZ
Chemical name / synonyms	Polyoxyethylene (20) sorbitan monolaurate; INCI: Polysorbate 20
CAS No.	9005-64-5
Product form	Substance

1.2 Recommended use and restrictions on use

Recommended use	Raw material for formulation and manufacture of cosmetic, personal-care and holistic products.
Uses advised against	None identified.

1.3 Responsible party and supplier

Supplier / responsible party	**LA Ingredients** 853 Sandhill Avenue Carson, CA 90746, USA
Email / website	support@laingredients.com laingredients.com

1.4 Emergency telephone number

Emergency telephone (24 hours)	**+1 656 232 3588** Hazmat Line Emergency Response (24 hours a day, 7 days a week)

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture (GHS / OSHA HCS 2012)

Not classified as hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200) and GHS, based on the source data.

2.2 GHS label elements

Signal word	None
Hazard statement(s)	None. Not applicable.
Precautionary statement(s)	None required for classification. See Sections 7 and 8 for good-practice handling.

2.3 Hazards not otherwise classified (HNOC)

May cause mild skin irritation. May be combustible at high temperature.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance. Single component.

Chemical name	CAS No.	EC No.	Concentration	GHS classification
Polysorbate 20 (polyoxyethylene (20) sorbitan monolaurate)	9005-64-5	—	60 – 100 %	Not classified

SECTION 4: FIRST-AID MEASURES

4.1 Description of first-aid measures

General advice	If symptoms develop or persist, get medical attention. Show this SDS to the medical professional.
Inhalation	Not expected to be needed at normal temperatures. If vapor or mist is inhaled and symptoms occur, move to fresh air and get medical attention.
Skin contact	Remove contaminated clothing. Wash with soap and plenty of water. Get medical attention if irritation develops or persists.
Eye contact	Rinse with plenty of water for at least 15 minutes, holding the eyelids open. Remove contact lenses if present and easy to do. Get medical attention if irritation persists.
Ingestion	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur or if a large amount was swallowed.

4.2 Most important symptoms and effects, acute and delayed

Skin: mild irritation. Eyes: irritation and redness. Inhalation: not expected to be an irritant under normal use.
Ingestion may cause nausea, vomiting or diarrhea.

4.3 Immediate medical attention and special treatment

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable	Carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam, water spray.
Unsuitable	Water spray alone may be insufficient to extinguish the fire.

5.2 Special hazards arising from the substance or mixture

May be combustible at high temperature. Combustion products: carbon monoxide and carbon dioxide.

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus (SCBA) and full protective clothing. Cool exposed containers with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear gloves and eye protection (see Section 8). Spilled liquid may make surfaces slippery.

6.2 Environmental precautions

Prevent entry into drains, sewers and waterways. Notify the appropriate authorities if a large release reaches water.

6.3 Methods and materials for containment and cleaning up

Contain the spill and absorb with an inert absorbent (sand, earth or similar). Collect into suitable, closed containers for disposal.

Clean the area with water and detergent. Spilled liquid may make surfaces slippery.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with eyes, skin and clothing. Use with adequate ventilation.

Keep containers closed when not in use. Wash hands after handling. Do not eat, drink or smoke in work areas.

7.2 Conditions for safe storage, including incompatibilities

Store in a cool, well-ventilated place in the original tightly closed container, protected from sunlight and away from open flames, hot surfaces and ignition sources. Store away from strong oxidizers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No occupational exposure limit established for this product.

8.2 Appropriate engineering controls

Normal general ventilation is adequate. Use local exhaust ventilation if dust or mist is generated.

8.3 Individual protection measures / personal protective equipment (PPE)

Eye / face	Safety glasses with side shields or chemical goggles.
Skin / hands	Suitable protective gloves.
Body	Chemical-resistant apron or protective clothing where splashing is likely.
Respiratory	Not required under normal use. Ensure ventilation if irritation occurs.
Hygiene	Wash hands after handling. Do not eat, drink or smoke when using this product. Eyewash and washing facilities should be accessible.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid (viscous)
Color	Yellow to amber
Odor	Characteristic
Odor threshold	No data available
pH	5.5 – 7.5 (aqueous solution)
Melting point / freezing point	< 0 °C
Boiling point / range	> 100 °C
Flash point	> 100 °C (> 212 °F), open cup
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 / specific gravity	Approx. 1.08 – 1.12 at 25 °C
Solubility in water	Soluble
Solubility in other solvents	No data available
Partition coefficient (n-octanol/water)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Approx. 250 cSt at 25 °C
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other information

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	No dangerous reactions known under normal conditions of use.
10.2 Chemical stability	Stable under recommended storage and handling conditions.
10.3 Possibility of hazardous reactions	Hazardous polymerization will not occur.
10.4 Conditions to avoid	Excessive heat, open flames and ignition sources.
10.5 Incompatible materials	Strong oxidizing agents (general precaution).
10.6 Hazardous decomposition products	Carbon monoxide and carbon dioxide in a fire.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure	Eye and skin contact; ingestion; inhalation of mist if heated or sprayed.
Acute toxicity	Oral LD50 (rat): > 2,000 mg/kg. Not classified.
Skin corrosion / irritation	Not classified. May cause mild skin irritation.
Serious eye damage / irritation	Not classified. May cause eye irritation.
Respiratory or skin sensitization	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified. No component present at 0.1% or more is listed as a carcinogen by IARC, NTP, ACGIH or OSHA.

Reproductive toxicity	Not classified.
STOT – single exposure	Not classified.
STOT – repeated exposure	Not classified.
Aspiration hazard	Not classified.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity	Fish LC50 (96 h): > 100 mg/L.
12.2 Persistence and degradability	Only slightly biodegradable according to one source.
12.3 Bioaccumulative potential	No bioaccumulation potential expected.
12.4 Mobility in soil	Soluble in water.
12.5 PBT and vPvB assessment	No data available.
12.6 Other adverse effects	None known. Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Product	Dispose of in accordance with federal, state and local regulations. Do not pour into drains or sewers unless permitted. Waste classification may change if the product is used or altered.
Contaminated packaging	Empty containers completely. Dispose of as unused product, or recycle where facilities exist.

SECTION 14: TRANSPORT INFORMATION

DOT (US)	Not regulated as dangerous goods.
IMDG (sea)	Not regulated as dangerous goods.
IATA (air)	Not regulated as dangerous goods.
UN number / packing group	Not applicable.

SECTION 15: REGULATORY INFORMATION

OSHA HCS	Not classified as hazardous under 29 CFR 1910.1200 based on the source data.
TSCA	Listed on the TSCA Inventory.
SARA 302 / 311-312 / 313	No SARA 313 reportable components per the source data. No SARA 311/312 hazard categories identified.
California Proposition 65	One source reports that this material may contain trace amounts of 1,4-dioxane and ethylene oxide, which are listed under California Proposition 65 (residual manufacturing by-products). To be confirmed with the supplier for the final SDS.
Compliance	Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user.

SECTION 16: OTHER INFORMATION

Date of issue / last revision	11/03/2026
Version	1.0 (Preliminary)
Supersedes	**None (first issue)**
Prepared by	LA Ingredients, 853 Sandhill Avenue, Carson, CA 90746 | support@laingredients.com
Basis of this SDS	PRELIMINARY. Compiled by LA Ingredients from two published safety data sheets for equivalent material (polysorbate 20, CAS 9005-64-5), revisions dated 05/18/2018 and 04/15/2024. The supplier-specific SDS was not yet available. This SDS will be superseded when it is.

Hazard ratings (as given by the manufacturer)

NFPA 704	Health 0 | Flammability 1 | Instability 0
HMIS	Health 0 | Flammability 1 | Physical hazard 0

Key to abbreviations

CAS = Chemical Abstracts Service; GHS = Globally Harmonized System; OSHA HCS = OSHA Hazard Communication Standard; PEL = permissible exposure limit; TLV = threshold limit value; TWA = time-weighted average; LD50 / LC50 / EC50 = median lethal dose / lethal concentration / effective concentration; PBT / vPvB = persistent, bioaccumulative, toxic / very persistent, very bioaccumulative; OECD = Organisation for Economic Co-operation and Development; DOT = US Department of Transportation; IMDG = International Maritime Dangerous Goods Code; IATA = International Air Transport Association; TSCA = Toxic Substances Control Act; SARA = Superfund Amendments and Reauthorization Act; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; STOT = specific target organ toxicity; HNOC = hazard not otherwise classified; HMIS = Hazardous Materials Identification System; NFPA = National Fire Protection Association; IARC = International Agency for Research on Cancer; NTP = National Toxicology Program; ACGIH = American Conference of Governmental Industrial Hygienists; PNOC = particulates not otherwise classified; USP = United States Pharmacopeia; FCC = Food Chemicals Codex; AIHA WEEL = American Industrial Hygiene Association Workplace Environmental Exposure Level.

Notes

This is a **Preliminary** SDS compiled by LA Ingredients from published safety data sheets for equivalent material, issued by two independent suppliers, because the product-specific supplier SDS was not yet available. Where the sources differed, the more conservative (more protective) value was used. Physical values may differ from the lot supplied. This SDS will be superseded when the supplier-specific SDS is received.

Section 15: the Proposition 65 statement appears in one source only and is retained as the more protective position pending the supplier SDS.

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