



Shay and Company
10639 SE Fuller Rd
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Ph: 503-653-1155
info@shayandcompany.com

SAFETY DATA SHEET

Version: 1.0

Revision Date: 12/09/2020

1. Product and Company Identification:

Product: Polysorbate 20

Item Code: 90035

Distributor: Shay and Company

2. Hazard Identification:

Hazard Symbol: This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Risk Phrases:

Routes of entry: Eyes, skin, oral, inhalation

Acute Eye Contact: May cause mild reversible eye irritation.

Chronic Eye Contact: Chronic exposure not likely from normal use.

3. Composition/Information on Ingredients:

Ingredient Deck:

Polyoxyethylene Sorbitan Monolaurate- 60-100%

Balance is water

CAS no: 9005-64-5

Hazardous Ingredient/s: n/a

4. First Aid Measures:

Inhalation: Remove to fresh air; seek medical attention if irritation persists.

Eyes: Flush immediately with plenty of water; seek medical attention if irritation persists.

Skin: Wash with soap and water, seek medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting; drink 2-3 glasses of water, contact physician for further treatment.

5. Fire Fighting Measures:

Suitable Extinguishers: In case of fire use water spray, alcohol-resistant foam, carbon dioxide (Co2), dry chemical powder.

Extinguishers Not to be Used: none



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Hazardous Decomposition Products: Product is not flammable. In case of combustion it may generate carbon monoxide, besides Co₂.

Special Fire Fighting Procedures: Water jets should not be used directly in igniting products because it may disperse the material and intensify the fire. Self-contained breathing apparatus and protective clothing are required. Cool the intact fire-exposed containers with water spray and remove them.

6. Accidental Release Measures:

Personal Precautions: Isolate and signalize the area. Keep heat and/or ignition sources away. Use personal protection equipment as indicated in Section 8, in order to avoid contact with spilled product

Environmental Precautions: Prevent product from entering into soil and waterways. Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation.

Clean Up Procedure: Stop if possible. Contain and dike spilled product with earth or sand. Eliminate ignition or heat sources. Transfer to proper container. Collect remnants with an appropriate absorbent material. Was the contaminated surface with water, which should be collected for disposal.

7. Handling and Storage:

Handling Precautions: Use in a well-ventilated area. Avoid inhalation and contact with eyes, skin or clothing through proper protection. If accidental contact occurs, exposed area should be washed immediately. Emergency eyewashes and showers shall be located in accessible locations. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse.

Storage Requirements: Store in a covered and well-ventilated area, away from sunlight and sources of heat or open flames. Ensure that the storage location has adequate moisture, pressure and temperature. Keep containers tightly closed when not in use. The product can be stored, in liquid state, at temperatures slightly between 20 – 50°C, which, as recommended, is maintained at inert gas atmosphere.

8. Exposure Controls/Personal Protection:

Occupational Exposure Limit: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Respiratory Protection: Use with adequate ventilation

Eye Protection: Wear safety glasses

Skin Protection: Protective clothing is not necessary



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9. Physical and Chemical Properties:

Description: Clear to yellowish free flowing liquid.

pH: 5.5-6.5 (5% p/p at 25°C)

Melting Point: n/a

Flash Point: >149°C/300.2°F

Solubility in Water (by weight): 20°C for 1 hour/0.5% concentration

10. Stability and Reactivity:

Condition to Avoid: High temperatures, ignition sources, and prolonged exposure to air.

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: In case of combustion it may generate carbon monoxide, besides CO₂.

Stabilization Techniques: The product can form a gel at temperatures < 20°C.

11. Toxicological Information:

Acute Toxicity: LD₅₀, rat: 36700µL/Kg

Skin Corrosion/Skin Irritation: Non-corrosive/HRIPT results indicate product is non-irritating

Respiratory or Skin Sensitization: Not expected/HRIPT results indicate product is non-sensitizing

Serious Eye Damage/Eye Irritation: Draize eye irritation score was a 5.3 out of a possible 110

STOT-Single/STOT-repeated exposure: No data available

Carcinogenicity: None of this products components are listed as carcinogenic by ACGIH, IARC, NTP DFG or OSHA. There are no known serious chronic effects and/or references on carcinogenic, mutagenic or teratogenic product activity.

Mutagenicity: AMES test results indicate that this product is non-mutagenic

Toxicity for reproduction: Not expected to affect reproduction or development

12. Ecological Information:

Ecotoxicity: The aquatic toxicity is not known.

Persistence and Degradability: Expected to be biodegradable.

Bio accumulative Potential: It is not expected to bioaccumulate in the environment.

Mobility in Soil: The product is slightly volatile and water soluble.

Other Adverse Effects: Not available.

13. Disposal Considerations:



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Handling Precautions: None

Method of Disposal: The preferred options for disposal include reuse, recycling, co-processing, finding a use for a by-product, incineration or other thermal destruction process at licensed facilities. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. Perform co-processing, incineration or other thermal destruction process at facilities capable of minimizing or reducing air pollution emissions. The disposal must comply with federal, state, and local laws and regulations in accordance with the environmental agencies.

Contaminated Packaging: Dispose of accordance with local regulations.

14. Transportation Information:

Land Transport ANTT: Product not classified as hazardous in accordance with Resolution 420/2004 - Transport Ministry.

Maritime Transport IMDG: Product not classified as hazardous in accordance with IMDG Code - 2010 Edition - IMO (International Maritime Organization).

Air Transport ICAO-TI and IATA-DGR: Product not classified as hazardous in accordance with Dangerous Goods Regulations - 53rd Edition - IATA (International Air Transport Association).

Land Transport ADR/RID (Cross-border): Product not classified as hazardous in accordance with Dangerous Goods by Road - Applicable from 1st January 2011 - Unece (United Nations Economic Commissions for Europe).

15. Regulatory Information:

US State Regulations

California Proposition 65- Polysorbate 20 contains the following trace impurities and or by-products know to the state of California to cause cancer or reproductive toxicity as listed under Proposition 65 State drinking Water and Toxic Enforcement Act- Ethylene Oxide (1ppm MAX) and 1,4 Dioxane (10 ppm MAX).

16. Other Information:

N/A

The information provided above is intended only as a guide to the appropriate precautionary handling of the item. It is the responsibility of the customer and user to ensure it has in place provisions for the safe and proper handling of the material. Shay and Company believes the above information to be accurate based on the information available, however, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to use to verify that



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the product purchased from Shay and Company meets their quality requirements and is appropriate for the use to which the product is to be put.