

## Polysorbate 80


Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /  
March 26, 2012 / Rules and Regulation

Revision Date: 16-Apr-2024  
Supersedes: 29-May-2022

### 1 PRODUCT & COMPANY IDENTIFICATION

|                      |                   |                                    |                                                                      |
|----------------------|-------------------|------------------------------------|----------------------------------------------------------------------|
| <b>Product Name:</b> | Polysorbate 80    | <b>Distributor:</b>                | MakingCosmetics Inc.                                                 |
| <b>Synonyms:</b>     | No data available | <b>Address:</b>                    | 10800 231 <sup>st</sup> Way NE<br>Redmond, WA 98053 (USA)            |
| <b>INCI Name:</b>    | Polysorbate 80    | <b>Phone / Fax:</b>                | 425-292-9502 / 425-292-9601                                          |
| <b>CAS Number:</b>   | 9005-65-6         | <b>Web:</b>                        | <a href="http://www.makingcosmetics.com">www.makingcosmetics.com</a> |
| <b>Formula:</b>      | No data available |                                    |                                                                      |
| <b>Product Form:</b> | Liquid            |                                    |                                                                      |
| <b>Product Use:</b>  | Cosmetic use      | <b>Emergency Telephone Number:</b> | 1-800-424-9300 (Chemtrec)                                            |

### 2 HAZARDS IDENTIFICATION

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |   |         |              |   |        |            |   |         |                 |     |  |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---|---------|--------------|---|--------|------------|---|---------|-----------------|-----|--|
| <b>GHS Classification:</b>           | Skin corrosion/irritation, Category 3<br>Serious eye damage/eye irritation, Category 2B<br>Specific target organ toxicity - single exposure, Category 3 (respiratory system)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |   |         |              |   |        |            |   |         |                 |     |  |
| <b>GHS Signal Word:</b>              | <b>WARNING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |   |         |              |   |        |            |   |         |                 |     |  |
| <b>GHS Hazard Pictograms:</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |   |         |              |   |        |            |   |         |                 |     |  |
| <b>GHS Hazard Statements:</b>        | H316 Causes mild skin irritation.<br>H320 Causes eye irritation.<br>H335 May cause respiratory irritation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |   |         |              |   |        |            |   |         |                 |     |  |
| <b>GHS Precautionary Statements:</b> | P261 Avoid breathing gas/mist/vapours/spray.<br>P264 Wash thoroughly after handling.<br>P271 Use only outdoors or in a well-ventilated area.<br>P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>P312 Call a POISON CENTER or doctor/physician if you feel unwell.<br>P332+P313 If skin irritation occurs: Get medical advice/attention.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337+P313 If eye irritation persists: Get medical advice/attention.<br>P403+P233 Store in a well-ventilated place. Keep container tightly closed.<br>P405 Store locked up.<br>P501 Dispose of contents / container in accordance with current legislation. |         |   |         |              |   |        |            |   |         |                 |     |  |
| <b>Potential Health Hazards:</b>     | Eyes: Causes serious eye irritation/damage.<br>Inhalation: Causes respiratory system irritation.<br>Skin: Causes skin irritation/corrosion.<br>Ingestion: Causes nausea, vomiting, or diarrhea.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |   |         |              |   |        |            |   |         |                 |     |  |
| <b>NFPA Ratings (704):</b>           | <table border="1"> <tr> <td>Health</td> <td>0</td> <td>Minimal</td> </tr> <tr> <td>Flammability</td> <td>1</td> <td>Slight</td> </tr> <tr> <td>Reactivity</td> <td>0</td> <td>Minimal</td> </tr> <tr> <td>Specific Hazard</td> <td colspan="2">N/A</td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Health  | 0 | Minimal | Flammability | 1 | Slight | Reactivity | 0 | Minimal | Specific Hazard | N/A |  |
| Health                               | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Minimal |   |         |              |   |        |            |   |         |                 |     |  |
| Flammability                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Slight  |   |         |              |   |        |            |   |         |                 |     |  |
| Reactivity                           | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Minimal |   |         |              |   |        |            |   |         |                 |     |  |
| Specific Hazard                      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |   |         |              |   |        |            |   |         |                 |     |  |

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Component</u> | <u>CAS No.</u> | <u>Weight %</u> | <u>Molecular Weight</u> |
|------------------|----------------|-----------------|-------------------------|
| Polysorbate 80   | 9005-65-6      | 100%            | Not Available           |

### 4 FIRST AID MEASURES

|                                         |                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eyes:</b>                            | Immediately flush with plenty of running water for at least 15 minutes, keeping eyelids open. Remove contact lenses if easy to do. Seek immediate medical attention.                                                                                                                                                   |
| <b>Inhalation:</b>                      | Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.                                                                                                                                                                   |
| <b>Skin:</b>                            | Remove contaminated clothing and shoes. Wash affected areas with plenty of running water, preferably under a shower. Seek immediate medical attention.                                                                                                                                                                 |
| <b>Ingestion:</b>                       | Do Not Induce Vomiting. Never give anything by mouth to an unconscious person. Vomiting should only be induced by medical personnel. If vomiting occurs, keep the head lower than chest to avoid aspiration into the lungs. Seek immediate medical attention.                                                          |
| <b>Important Acute/Delayed Effects:</b> | Toxic effects are not expected due to significant acute toxic ingestion of small amounts of this product. In large amounts it may cause intestinal obstruction. Inhalation may cause irritation of the nose, throat, and respiratory tract. Skin contact may cause light irritation. Eye contact may cause irritation. |
| <b>Physician Notes:</b>                 | There is no known specific antidote. Direct the treatment in accordance with the symptoms and clinical conditions of the patient.                                                                                                                                                                                      |

## 5 FIRE-FIGHTING MEASURES

|                                                                         |                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable (and unsuitable) extinguishing media:</b>                   | May be combustible at high temperature. Use appropriate media (alcohol resistant foam, water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical powder) for adjacent fire. Do not use water jet as it may disperse material and intensify the fire. |
| <b>Special protective equipment &amp; precautions for firefighters:</b> | Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots. Cool the intact fire-exposed containers with water spray and remove them.                                                                     |
| <b>Flash Points:</b>                                                    | > 300°F (149°C) (open cup)                                                                                                                                                                                                                              |
| <b>Specific hazards arising from the chemical:</b>                      | Slight fire hazard. In case of combustion it may generate carbon monoxide, besides CO <sub>2</sub> . See also Stability and reactivity section.                                                                                                         |

## 6 ACCIDENTAL RELEASE MEASURES

|                                                                               |                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment &amp; emergency procedures:</b> | Isolate and signalize area. Keep heat and/or ignition sources away. Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.                                                                                                                              |
| <b>Environmental precautions:</b>                                             | Avoid liquid release into sewers/public water/environment. Notify environmental authorities in case of leak or contaminated ground or vegetation.                                                                                                                                                                                                    |
| <b>Methods and material for containment and cleaning up:</b>                  | 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. Wash the contaminated surface with water, which should be collected for disposal. Dispose of absorbed material in accordance with the regulations. |

## 7 HANDLING & STORAGE

|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautions for safe handling:</b>                            | 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. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse. Use good personal hygiene practice. See section 8 for recommendations on the use of personal protective equipment.                 |
| <b>Conditions for safe storage, incl. any incompatibilities:</b> | 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. Stainless steel and carbon steel are the recommended packaging material. Keep away from heat and store away from incompatible materials (see section 10 for incompatibilities). |

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

| <u>Component</u> | <u>Exposure Limits</u> | <u>Basis</u>  | <u>Entity</u> |
|------------------|------------------------|---------------|---------------|
| Polysorbate 80   | Not available          | Not available | Not available |

TWA: Time Weighted Average over 8 hours of work.  
 TLV: Threshold Limit Value over 8 hours of work.  
 REL: Recommended Exposure Limit  
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.  
 IDLH: Immediately Dangerous to Life or Health  
 WEEL: Workplace Environmental Exposure Levels  
 CEIL: Ceiling

## Personal Protection:

|                    |                                                                                                                                                                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eyes:</b>       | Wear side shields or wide vision safety goggles.                                                                                                                                                                                                                        |
| <b>Inhalation:</b> | It is recommended to wear face mask with organic vapors cartridge in case of exposure to vapors/aerosols. In case of emergency or contact with high concentrations of the product, wear an air supplied mask or self-contained breathing apparatus.                     |
| <b>Body:</b>       | Wear gloves made of rubber, PVC, or equivalent and a PVC apron and/or full protective gear.                                                                                                                                                                             |
| <b>Other:</b>      | In closed environments, this product should be handled keeping proper exhaust (general diluter or local exhauster). Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. |

## 9 PHYSICAL AND CHEMICAL PROPERTIES

|                                                |                                    |                                     |                                             |
|------------------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------|
| <b>Appearance:</b>                             | Liquid                             | <b>Vapor Pressure at 25 °C:</b>     | 0,001 kPa                                   |
| <b>Odor:</b>                                   | No data available                  | <b>Vapor Density:</b>               | 45. (air = 1)                               |
| <b>Odor Threshold:</b>                         | No data available                  | <b>Evaporation Rate:</b>            | No data available                           |
| <b>Color:</b>                                  | Yellowish to amber                 | <b>Flammability:</b>                | No data available                           |
| <b>Molecular Weight:</b>                       | No data available                  | <b>Upper/lower Explosive Limit:</b> | No data available                           |
| <b>pH:</b>                                     | 6,0 - 7,0 (sol. 5%)                | <b>Flash Point:</b>                 | > 300°F (149°C) (open cup)                  |
| <b>Boiling Point:</b>                          | > 200°F (100 °C)                   | <b>Specific Gravity:</b>            | No data available                           |
| <b>Melting/Freezing Point:</b>                 | > 68°F (20 °C)                     | <b>Water Solubility at 20°C:</b>    | Soluble (for 1 hour, concentration of 0.5%) |
| <b>Relative Density at 25°C:</b>               | 1,07 g/cm <sup>3</sup> (water = 1) | <b>Other Solubility at 25°C:</b>    | Soluble in ethanol                          |
| <b>Partition Coefficient: n-octanol/water:</b> | No data available                  | <b>Auto-Ignition Temperature:</b>   | No data available                           |
| <b>Viscosity at 25°C:</b>                      | 300 - 500 cSt                      | <b>Decomposition Temperature:</b>   | No data available                           |
| <b>Oxidizing Properties:</b>                   | No data available                  | <b>Explosive Properties:</b>        | No data available                           |

## 10 STABILITY AND REACTIVITY

|                                          |                                                                                  |
|------------------------------------------|----------------------------------------------------------------------------------|
| <b>Reactivity:</b>                       | No hazardous reactivity is expected.                                             |
| <b>Chemical Stability:</b>               | Stable under normal conditions of use and storage.                               |
| <b>Hazardous Polymerization:</b>         | No data available.                                                               |
| <b>Conditions to Avoid:</b>              | High temperatures, ignition sources and prolonged exposure to the air.           |
| <b>Incompatible Materials:</b>           | Strong oxidizing agents and compounds with high affinity for hydroxyl groups.    |
| <b>Hazardous Decomposition Products:</b> | In case of combustion it may generate carbon monoxide, besides CO <sub>2</sub> . |
| <b>Possible Hazardous Reactions:</b>     | Will not polymerize.                                                             |

## 11 TOXICOLOGICAL INFORMATION

|                                        |                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute Toxicity:</b>                 | No data available.                                                                                                                                                                                                                                                                                                                |
| <b>Skin:</b>                           | No data available.                                                                                                                                                                                                                                                                                                                |
| <b>Eyes:</b>                           | (Rat): 150mg: Slight irritant.                                                                                                                                                                                                                                                                                                    |
| <b>Inhalation:</b>                     | No data available.                                                                                                                                                                                                                                                                                                                |
| <b>Ingestion:</b>                      | (Rat) LD50: 34500 µL/kg.<br>(Mouse) LD50: 25000 mg/kg.                                                                                                                                                                                                                                                                            |
| <b>Carcinogenicity:</b>                | There are no known serious chronic effects of the product. Tests with pregnant rats that received the product orally, in doses of 500 mg/kg/day, showed that the product does not affect the development or alter the mortality of the fetuses. There are no references on the mutagenic or carcinogenic activity of the product. |
| <b>Teratogenicity:</b>                 | No data available.                                                                                                                                                                                                                                                                                                                |
| <b>Germ Cell Mutagenicity:</b>         | No data available.                                                                                                                                                                                                                                                                                                                |
| <b>Embryotoxicity:</b>                 | No data available.                                                                                                                                                                                                                                                                                                                |
| <b>Specific Target Organ Toxicity:</b> | No data available.                                                                                                                                                                                                                                                                                                                |
| <b>Reproductive Toxicity:</b>          | No data available.                                                                                                                                                                                                                                                                                                                |
| <b>Respiratory/Skin Sensitization:</b> | No data available.                                                                                                                                                                                                                                                                                                                |
| <b>Corrosivity:</b>                    | No data available.                                                                                                                                                                                                                                                                                                                |
| <b>Aspiration Hazard:</b>              | No data available.                                                                                                                                                                                                                                                                                                                |

## 12 ECOLOGICAL INFORMATION

|                                       |                                                                                                   |
|---------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity:</b>                   | No data available.                                                                                |
| <b>Aquatic Vertebrate:</b>            | No data available.                                                                                |
| <b>Aquatic Invertebrate:</b>          | No data available.                                                                                |
| <b>Terrestrial:</b>                   | No data available.                                                                                |
| <b>Persistence and Degradability:</b> | Completely biodegradable.                                                                         |
| <b>Bioaccumulative Potential:</b>     | It is not expected to bioaccumulate in the environment.                                           |
| <b>Mobility in Soil:</b>              | The product is slightly volatile and water soluble. It is expected to have high mobility in soil. |
| <b>PBT and vPvB Assessment:</b>       | No data available.                                                                                |
| <b>Other Adverse Effects:</b>         | No data available.                                                                                |

## 13 DISPOSAL CONSIDERATIONS

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste Residues:</b>     | The preferred options for disposal include reuse, recycling, co-processing, finding a use for a byproduct, incineration, or other thermal destruction process at licensed facilities. All procedures must follow specific operation standards 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. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product. |
| <b>Product Containers:</b> | Do not cut or pierce the packaging, nor work near them. Do not remove labels until the product has been fully removed and the packaging cleaned. The preferred options for disposal include reuse, recycling, or reclamation at licensed facilities. All procedures must follow specific operation standards to reduce health, safety, and environmental risks. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product container.                                                                           |

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods.

## 14 TRANSPORT INFORMATION

|                                                          |                                    |
|----------------------------------------------------------|------------------------------------|
| <b>DOT (Dept. of Transportation, USA):</b>               | No data available.                 |
| <b>ADR/RID (Road and Rail Transportation):</b>           | Not classified as dangerous goods. |
| <b>IMDG (International Maritime Dangerous Goods):</b>    | Not classified as dangerous goods. |
| <b>IATA (International Air Transport Association):</b>   | Not classified as dangerous goods. |
| <b>ICAO (International Civil Aviation Organization):</b> | Not classified as dangerous goods. |

## 15 REGULATORY INFORMATION

|                               |                    |
|-------------------------------|--------------------|
| <b>TSCA Inventory Status:</b> | No data available. |
| <b>Canada (DSL):</b>          | No data available. |
| <b>EU (EINECS):</b>           | No data available. |
| <b>China (IECSC):</b>         | No data available. |
| <b>Australia (AICS):</b>      | No data available. |
| <b>Taiwan (TCSI):</b>         | No data available. |
| <b>Japan (ENCS):</b>          | No data available. |
| <b>Philippines (PICCS):</b>   | No data available. |
| <b>Korea (ECL):</b>           | No data available. |
| <b>New Zealand:</b>           | No data available. |

## 16 OTHER INFORMATION

|                       |                                                                                                                                                                                                                          |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Revision Date:</b> | 16-Apr-2024                                                                                                                                                                                                              |
| <b>Compliance:</b>    | This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200                                                                                       |
| <b>Disclaimer:</b>    | This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the |

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company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.