

Polysorbate 80

1. **Identification**

Product: Surfactant

Product Name: Polysorbate 80

CAS No. 9005-65-6

Manufacturer/Supplier Identification

Manufacturer/Supplier: Formula Chemicals Co., Ltd.

Emergency telephone number: +886 922582639

2. **Composition/Information on Ingredients**

Sorbitan Mono Oleate, Ethoxylated (100%)

This product is NOT considered to be hazardous substance under OSHA'S Hazard Communication Standard (29 CFR 1910/200).

3. **Hazards Identification**

Symbols: Not applicable

Product Classification: Not applicable.

4. **Emergency and First Aid Procedure**

Eyes and Skin: Immediately flush eyes with plenty of water for at least 15 minutes.

Flush skin with water and consult a physician.

Inhalation: Remove to fresh air area and treat symptomatically.

Ingestion: Do not induce vomiting. Dilute with 1-2 glasses of water. Get medical aid.

5. **Firefighting Measures**

Flash point: Not applicable

Flammability classification: Non-flammable.

Extinguishing media that must not be used for safety reasons: CO₂. Dry powder.

Special Fire fighting procedure/Suitable extinguishing media: Use of self-contained breathing apparatus and full protective equipment recommended. Water mist. Foam.

6. **Accidental Release Measures**

Spillage Procedures: Wear personal protective equipment. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

7. **Handling and Storage**

Advice on safe handling: Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Keep dust to a minimum. Handle as an industrial chemical. Keep bag / container tightly closed.

Advice on common storage: Keep in a dry, cool and well ventilated place.

8. **Exposure/ Protection method**

Respiratory Protection: Use respirator with an organic vapor and dust/mist cartridge if the

recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

Ventilation: Local exhaust ventilation recommended to control dust exposure, protective gloves are recommended.

Skin Contact: protective gloves recommended

Eye Protection: Safety glasses or goggles recommended.

9. **Physical and Chemical Data**

Appearance and Odor: Yellow Liquid

Solid %: 100

Moisture (KF)%: 3 Max

Solubility in water: Soluble

Boiling Point: >100C

Flash Point: >150C

Acid Value: 2 Max

Saponification Value: 45-55

OH Value: 65-80

10. **Stability and Reactivity**

Stability: Generally considered stable

Thermal decomposition: Thermal decomposition and combustion are not expected to occur except under extreme conditions.

Hazardous decomposition products: No hazardous decomposition products known.

11. **Toxicological Data:**

Eye Irritation May cause eye irritation. Does not meet Canadian D2B or EU R36 criteria. Based on data from similar materials.

Skin Irritation May cause skin irritation, based on data from similar materials. Not expected to meet EU R38 criteria.

Respiratory Irritation No data available to indicate product or components may cause respiratory irritation under normal workplace conditions and good industrial hygiene practices.

Dermal Toxicity Material has low dermal toxicity based on other data or data on similar materials.

Inhalation Toxicity No data available to indicate product or components may be a toxic inhalation hazard.

Oral Toxicity The LD50 in rats is >2000 mg/kg. Based on data from similar materials.

Dermal Sensitization No data available to indicate product or components may be a skin sensitizer.

Inhalation Sensitization No data available to indicate product or components may be respiratory sensitizers.

12. Ecological Information

The product should not be allowed to enter drains or waterways.

Mobility: Non-volatile. Insoluble in water. Floats on water.

Persistence and degradability: Not biodegradable.

Bio-accumulative potential: No data available.

Environmental toxic data: No data available

13. Disposal Considerations

Product: In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.

Unclean packing: Packing that cannot be cleaned should be disposed of as product waste.

Do not empty into waters or drains.

14. Transport Data

This preparation is classified as normal cargo according the international transport regulations (ADR/RID, IMDG, ICAO/IATA).

Land transport ADR/RID: Not Restricted

Maritime transport IMDG/GGVSea: Not Restricted

Air transport ICAO-TI and IATA-DGR: Not Restricted

15. Regulatory Information

Substance name : Sorbitan Mono Oleate, Ethoxylated.

Symbols : Non Hazardous

EU directive : Safety Data Sheet according to EC-directive 93/112/EEC.

Other information : Not classified as dangerous

16. Other Information

This data sheet was prepared in accordance with Directive 91/155/EEC.

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