



Section 1. Product and Company Identification

Product Name Polysorbate 20
CAS Number 9005-64-5

Parchem - fine & specialty chemicals
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CHEMTEL
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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

WHMIS Classification: Not WHMIS controlled.

GHS Classification: Skin irritation (Category 3)

GHS Label Elements

Signal word: WARNING!

Hazard and precautionary statements

Hazard Statement(s)

H316 Causes mild skin irritation.

Precautionary Statement(s)

None

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin Contact: May be harmful if absorbed through skin. May cause skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Section 3. Composition / Information on Ingredients

Common Name Polysorbate 20
Formula $C_{58}H_{114}O_{26}$
CAS Number 9005-64-5

COMPONENT	CAS NUMBER	CONCENTRATION
Polysorbate 20	9005-64-5	N/A



Section 4. First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Eye Contact: Flush eyes with water as a precaution.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5. Firefighting Measures

Conditions of Flammability: Not flammable or combustible.

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous Combustion Products: Hazardous decomposition products formed under fire conditions: carbon oxides

Explosion Data - Sensitivity to Mechanical Impact: No data available

Explosion Data - Sensitivity to Static Discharge: No data available

Section 6. Accidental Release Measures

Personal Precautions: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental Precautions: Do not let product enter drains.

Methods and Materials for Containment and Cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Conditions for Safe Storage: Keep container tightly closed in a dry and well-ventilated place.

Section 8. Exposure Controls / Personal Protection

Contains no substances with occupational exposure limit values.

Personal Protective Equipment

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



Hand Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and Body Protection: Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Specific Engineering Controls: Use mechanical exhaust or laboratory fume hood to avoid exposure.

Section 9. Physical and Chemical Properties

Appearance

Form: Liquid

Color: No data available

Safety Data

pH: 7

Melting Point/Freezing Point: No data available

Boiling Point: 100°C (212°F)

Flash Point (Closed Cup): > 110.00°C (> 230.00°F)

Ignition Temperature: No data available

Auto-Ignition Temperature: No data available

Lower Explosion Limit: No data available

Upper Explosion Limit: No data available

Vapor Pressure: < 1.33 hPa (< 1.00 mmHg)

Density: 1.1050 g/cm³

Water Solubility: Soluble

Partition Coefficient (n-Octanol/Water): No data available

Relative Vapor Density: No data available

Odor: No data available

Odor Threshold: No data available

Evaporation Rate: No data available

Section 10. Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: No data available



Materials to Avoid: Strong oxidizing agents

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions: carbon oxides. Other decomposition products: no data available.

Section 11. Toxicological Information

Acute Toxicity

Oral LD50 - Rat: 40,554 mg/kg

Inhalation LC50: No data available

Dermal LD50: No data available

Other Information on Acute Toxicity: No data available

Skin Corrosion/Irritation - Human: Mild skin irritation (3 d)

Serious Eye Damage/Eye Irritation: No data available

Respiratory or Skin Sensitization: No data available

Germ Cell Mutagenicity: No data available

Carcinogenicity

IARC: No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive Toxicity: No data available

Teratogenicity: No data available

Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System): No data available

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System): No data available

Aspiration Hazard: No data available

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin Contact: May be harmful if absorbed through skin. May cause skin irritation.

Eye Contact: May cause eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic Effects: No data available

Additional Information

RTECS: TR7400000



Section 12. Ecological Information

Toxicity: Toxicity to fish LC50 - other fish - 350 mg/l - 24 h

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

PBT and vPvB Assessment: No data available

Other Adverse Effects: No data available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Section 15. Regulatory Information

WHMIS Classification: Not WHMIS controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

HMIS Classification

Health: 0

Flammability: 0

Reactivity: 0

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 7/9/2015