

## MATERIAL SAFETY DATA SHEET

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Poisondex Classifications

Health: 3  
Fire: 1  
Reactivity: 0

**PRODUCT NAME:**  
**PHYSAN 20**

DATE ISSUED: LAST REVISION:  
June 15, 2009 September 1, 2011

### SECTION 1: IDENTITY

**TRADE NAME:** Physan 20

**CHEMICAL FAMILY:** Quaternary ammonium compound

**CHEMICAL NAME:** Mixture of alkyl dimethyl benzyl ammonium chloride and alkyl dimethyl ethyl benzyl ammonium chloride

**COMMENTS:** Physan 20 is a concentrate and must be diluted before use.

### SECTION II: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>Hazardous Component</u>	<u>OSHA-PEL</u>	<u>%</u>
1. n-Alkyl (C14-60%; C16-30%; C12-5%; C18-5%) DIMETHYL BENZYL AMMONIUM CHLORIDE (CAS # 68391 - 01-5)	None	10%
2. n-Alkyl (C12-68%; C14-32%) DIMETHYL ETHYL BENZYL AMMONIUM CHLORIDE (CAS # 68956-79-6)	None	10%
3. ETHYL ALCOHOL (CAS #64-17-5)	1000 ppm	2.5%

### SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

**Boiling Point:** 212°F  
**Vapor Pressure:** N/A  
**Vapor Density:** N/A  
**Solubility in Water:** Complete  
**Appearance and Odor:** **Colorless Liquid** with a Benzaldehyde Odor  
**Specific Gravity:** 0.9808  
**Melting Point:** N/A  
**Evaporation Rate:** N/A

### SECTION IV: FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** >200°F Pensky Martins Closed Cup  
**Flammable Limits:** N/A  
**Extinguishing Media:** Water  
**Special Fire Fighting Procedures:** None  
**Unusual Fire and Explosion Hazards:** None

#### SECTION V: REACTIVITY DATA

**Stability:** Stable  
**Incompatibility:** Anionic Materials, Strong Oxidizers  
**Hazardous Decomposition  
(or by-products):** None  
**Hazardous  
Polymerization:** Will Not Occur

#### SECTION VI: HEALTH HAZARD DATA:

##### *Routes of Entry:*

**Inhalation:** N/A  
**Eye Contact:** Burning, Irritation and Redness  
**Skin Contact:** Burning, Irritation and Redness  
**Ingestion:** Irritation, Difficulty Breathing and Circulatory Shock  
Concentrate may be harmful  
Acute Oral LD50 = 1,000 Mg/Kg (Rat)

##### *First Aid:*

**Skin:** Rinse area for 15 minutes  
**Eyes:** Rinse area for 15 minutes and call a doctor  
**Ingestion:** Drink large quantities of milk, eggwhite, gelatin or water  
and call a doctor.

##### *Chemical Listed as Carcinogen By:*

**OSHA:** No  
**I.A.R.C. Monograph:** No  
**National Toxicology Program:** No

#### SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

**Spills:** Rinse Spills with water to drain  
**Waste Disposal:** Waste material should be placed in container and  
disposed of at a landfill. Conform to local provisions.  
**Handling/Storing:** Store in a dry place at temperatures not lower than 32°  
or higher than 120°F

#### SECTION VIII: CONTROL MEASURES

**Respiratory Protection:** None  
**Ventilation:** Mechanical (General)  
**Protective Gloves:** Rubber or Neoprene  
**Protective Clothing/Equipment:** Face Shield  
**Eye Protection:** Chemical Goggles