

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-990/990-73-8.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
990-73-8  
**Code:**  
M  
**RTECS:**  
UE5600000  
**Code:**  
M  
**Name:**  
FENTANYL CITRATE

**Other REC Limits:**  
NONE RECOMMENDED

**OSHA PEL:**  
UNKNOWN  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
UNKNOWN  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
4 NIOSH APPROVED RESPIRATOR.

**Ventilation:**  
LOCAL EXHAUST RECOMMENDED.

**Protective Gloves:**  
DISPOSABLE SURGICAL LATEX GLOVES.

**Eye Protection:**  
SAFETY GOGGLES.

**Other Protective Equipment:**  
Equipment DISPOSABLE PROTECTIVE APPAREL (PROTECT EXPOSED SKIN).

**Work Hygienic Practices:**  
WASH HANDS AFTER HANDLING. LAUNDRY CONTAMINATED CLOTHING PRIOR TO REUSE.

**Supplemental Safety and Health:**  
N/P

## Health Hazards Data

**LD50LC50Mixture:**  
LD50 ORAL, RAT = 18MG/KG.

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**

ACUTE:EYE/SKIN &/OR RESP TRACT IRRIT. NAUSEA, VOMITING, FATIGUE, DECREASED HEARTBEAT, CONVULSIONS, SEVERE DIZZINESS, PINPOINT PUPILS, LOW BLOOD PRESSURE, SLOW OR IRREG BREATHING, SEVERE WEAKNESS, COLD CLAMMY SKIN, SEVERE NERVOUSNESS OR RESTLESSNESS, & DROWS. CHRONIC:POSSIBLE HYPERSENSITIZATION & POTENTIAL HABITUAL ADDICTION.

**Explanation Of Carcinogenicity:**  
PER MSDS:CHEMICAL LISTED AS CARCINOGEN:NTP/IARC/OSHA:NO.

**Signs And Symptions Of Overexposure:**  
EYE/SKIN &/OR RESP TRACT IRRIT. NAUSEA, VOMITING, FATIGUE, DECREASED HEARTBEAT, CONVULSIONS, SEVERE DIZZINESS, PINPOINT PUPILS, LOW BLOOD PRESSURE, SLOW OR IRREGULAR BREATHING, SEVERE WEAKNESS, COLD CLAMMY SKIN, SEVERE NERVOUSNESS OR RESTLESSNESS, AND DROWSINESS. HYPERSENSITIZATION & HABITUAL ADDICTION.

**Medical Cond Aggravated By Exposure:**  
NONE SPECIFIED BY MFG.

**First Aid:**  
INHAL:REMOVE TO FRESH AIR. REMOVE CONTAMINATED CLOTHING. SEEK MED ATTN. INGEST:FLUSH MOUTH OUT W/WATER. SEEK MED ATTN. SKIN:REMOVE CONTAMINATED CLOTHING. FLUSH AREA W/WATER. SEEK MED ATTN. EYE:FLUSH W /WATER. SEEK MED ATTN.

**Spill Release Procedures:**  
WEAR RECOMMENDED PERSONAL PROTECTIVE EQPMT. VACUUM SPILLAGE W/VACUUM CLEANER HAVING HIGH EFFICIENCY PARTICULATE (HEPA)FILTER, OR ABSORB LIQUID WITH PAPER TOWELS. WIPE WORKING SURFACES TO DRYNESS THEN WASH WITH SOAP & WATER. 3

**Neutralizing Agent:**  
NOT APPLICABLE

**Waste Disposal Methods:**  
THOUGH NOT EPA REGULATED, WASTE SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

**Handling And Storage Precautions:**  
AS A GENERAL RULE, WHEN HANDLING PHARMACEUTICAL PRODUCTS AVOIDING ALL CONTACT & INHAL OF DUST/FUMES/MISTS &/OR VAPORS ASSOC W/PRODUCT.

**Other Precautions:**  
FENTANYL CITRATE INJECTION, USP IS A STERILE SOLUTION OF FENTANYL CITRATE IN WATER FOR INJECTION (PH=4.0-7.5).

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
N/A

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/A

**Upper Limits:**  
N/A

**Extinguishing Media:**  
WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL, OR FOAM AS APPROPRIATE FOR SURROUNDING FIRE AND MATERIALS.

**Fire Fighting Procedures:**  
FIREFIGHTERS SHOULD USE SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

**Unusual Fire/Explosion Hazard:**  
EMITS TOXIC FUMES.

## Physical/Chemical Properties

**HCC:**  
N1

**NRC/State LIC No:**  
N/R

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
N/A

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
N/K

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
N/A

**Vapor Density:**  
N/A

**Volatile Org Content %:**

**Spec Gravity:**  
N/K

**VOC Pounds/Gallon:**

**PH:** N/K 5

**VOC Grams/Liter:**

**Viscosity:**  
N/K

**Evaporation Rate & Reference:**  
N/K

**Solubility in Water:**  
SOLUBLE.

**Appearance and Odor:**  
CLEAR, COLORLESS SOLUTION, ODORLESS.

**Percent Volatiles by Volume:**  
N/K

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
EXPOSURE TO LIGHT MAY CAUSE DECOMPOSITION.

**Materials To Avoid:**  
NONE SPECIFIED BY MFG.

**Hazardous Decomposition Products:**  
FENTANYL CITRATE EMITS TOXIC FUMES WHEN HEATED TO DECOMPOSITION.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
NOT APPLICABLE

## Toxicological Information

**Information:**N/P

## MSDS Transport Information

**Information:**N/P

## Regulatory Information

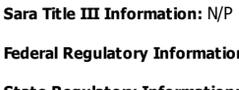
**Sara Title III Information:** N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

## Other Information

**Other Information:**N/P



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