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IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

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Emergency telephone number: Emergency telephone number:

Material Name: Fentanyl Citrate Injectable Solution

Trade Name: Fentanest Chemical Family: Mixture

Intended Use: Pharmaceutical product used as analgesic, anesthetic agent

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS List	%
Fentanyl Citrate	990-73-8	213-588-0	<0.1

Ingredient	CAS Number	EU EINECS List	%
Propylparaben	94-13-3	202-307-7	*
Water for Injection	7732-18-5	231-791-2	*
Methylparaben	99-76-3	202-785-7	*

Additional Information: * Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

3. HAZARDS IDENTIFICATION

Appearance: Solution

Statement of Hazard: Non-hazardous in accordance with international standards for workplace safety.

Additional Hazard Information:

Short Term: May be absorbed through the skin and cause systemic effects. May be fatal if swallowed

(based on components). Use of this drug is habit forming. Addiction may occur.

Long Term: Animal studies have shown a potential to cause adverse effects on the fetus. Animal studies

indicate that this material may cause adverse effects on the reproductive system.

Known Clinical Effects: Ingestion of this material may cause effects similar to those seen in clinical use including dry

mouth, drowsiness, headache, dizziness, nausea, vomiting, weakness, anxiety, and dilated pupils. Cases of severe overdose may lead to respiratory depression, hypotension, coma,

convulsions, cardiac arrhythmia, and tachycardia.

EU Indication of danger: Not classified

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Note: This document has been prepared in accordance with standards for workplace safety, which

require the inclusion of all known hazards of the active substance or its intermediates regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your

workplace.

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get

medical attention.

Skin Contact: Remove clothing and wash affected skin with soap and water. This material may not be

completely removed by conventional laundering. Consult professional laundry service. Do not

home launder. If irritation occurs or persists, get medical attention.

Ingestion: Get medical attention. Do not induce vomiting unless directed by medical personnel. Never

give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use carbon dioxide, dry chemical, or water spray.

Hazardous Combustion Products: Formation of toxic gases is possible during heating or fire.

Fire Fighting Procedures: During all fire fighting activities, wear appropriate protective equipment, including self-

contained breathing apparatus.

Fire / Explosion Hazards: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

Measures for Cleaning / Collecting: Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill

area thoroughly.

Measures for Environmental

Protections:

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to

avoid environmental release.

Additional Consideration for Large

Spills:

Non-essential personnel should be evacuated from affected area. Report emergency

situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

General Handling: Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and

follow appropriate grounding and bonding procedures. Avoid contact with eyes, skin and

clothing. Avoid breathing vapor or mist. Use with adequate ventilation.

Storage Conditions: Store at room temperature in properly labeled containers. Keep away from heat, sparks and

flames.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

Fentanyl Citrate

Pfizer Occupational Exposure OEB5 - Skin (control exposure to <1ug/m³, provide additional precautions to protect from skin

Band (OEB): contact)

Engineering Controls: Engineering controls should be used as the primary means to control exposures. Use process

containment, local exhaust ventilation, or other engineering controls to maintain airborne levels

within the OEB range.

Personal Protective Equipment:

Hands: Wear impervious gloves if skin contact is possible.

Eyes: Safety glasses or goggles

Skin: Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and

laboratory areas.

Respiratory protection: If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear

an appropriate respirator with a protection factor sufficient to control exposures to the bottom of

the OEB range.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Solution Color: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.

Conditions to Avoid: Not determined

Incompatible Materials: As a precautionary measure, keep away from strong oxidizers.

11. TOXICOLOGICAL INFORMATION

General Information: There are no data for this formulation. The remaining information describes the potential

hazards of the individual ingredients.

Acute Toxicity: (Species, Route, End Point, Dose)

Fentanyl Citrate

Rat Oral LD50 18 mg/kg

Rat Intravenous LD50 990 ug/kg Rat Intraperitoneal LD50 2070 ug/kg

Mouse Oral LD50 368 mg/kg

Mouse Intravenous LD50 10100 ug/kg

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

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Fentanyl Citrate

Reproductive & Fertility Rat Subcutaneous 1.25 mg/kg/day LOAEL Fertility Reproductive & Fertility Rat Intravenous 30 ug/kg LOAEL Fertility, Embryotoxicity Reproductive & Fertility 160 ug/kg LOAEL Fertility, Embryotoxicity Rat Subcutaneous

Embryo / Fetal Development Rat Oral 500 ug/kg NOAEL Not Teratogenic

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Fentanyl Citrate

Bacterial Mutagenicity (Ames) Salmonella , E. coli Negative
In Vitro Mammalian Cell Mutagenicity Mouse Lymphoma Negative

In Vivo Micronucleus Mouse Negative

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been thoroughly investigated. Releases to the environment

should be avoided.

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

EU Indication of danger: Not classified

OSHA Label:

Non-hazardous in accordance with international standards for workplace safety.

Canada - WHMIS: Classifications

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WHMIS hazard class:

None required

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

Propylparaben

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS List

Present
202-307-7

Water for Injection

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS List

231-791-2

Methylparaben

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS List

Present
202-785-7

Fentanyl Citrate

Australia (AICS): Present EU EINECS List 213-588-0

16. OTHER INFORMATION

Reasons for Revision: Updated Section 3 - Hazard Identification. Updated Section 5 - Fire Fighting Measures.

Updated Section 6 - Accidental Release Measures. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 10 - Stability and Reactivity. Updated Section 13 -

Disposal Considerations. Updated Section 15 - Regulatory Information.

Prepared by: Toxicology and Hazard Communication

Pfizer Global Environment, Health, and Safety

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End of Safety Data Sheet