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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Pfizer Inc
Pfizer Inc
Pfizer Pharmaceuticals Group
Ramsgate Road
235 East 42nd Street
Sandwich, Kent
New York, New York 10017
CT13 9NJ
1-212-573-2222
United Kingdom
+00 44 (0)1304 616161

Emergency telephone number: Emergency telephone number:

Material Name: Tramadol Hydrochloride Solution for Injection

Trade Name: Nobligan; Tramal

Chemical Family: Mixture

Intended Use: Pharmaceutical product used as analgesic

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Hazardous**

Ingredient	CAS Number	<b>EU EINECS List</b>	%
Tramadol Hydrochloride	73806-49-2	Not listed	5

Ingredient	CAS Number	<b>EU EINECS List</b>	%
Water for injection	7732-18-5	231-791-2	*
Sodium acetate	127-09-3	204-823-8	*

Additional Information: \* Proprietary

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

safety.

### 3. HAZARDS IDENTIFICATION

Appearance:SolutionSignal Word:WARNING

Statement of Hazard: Harmful if swallowed.

May cause central nervous system effects

**Additional Hazard Information:** 

Short Term: Not an eye irritant; Active ingredient is not a skin irritant; Harmful if swallowed (based on

animal data).

**Long Term:** Use of this drug is habit forming. Addiction may occur.

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:** Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

**Inhalation:** Remove to fresh air and keep patient at rest. Seek medical attention immediately.

### 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

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**General Handling:** Avoid contact with skin and clothing. Use with adequate ventilation. Wash thoroughly after

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handling.

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

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

No Occupational Exposure Limit (OEL) or Short Term Exposure Limit (STEL) has been identified.

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

**Personal Protective Equipment:** 

Hands: Not required for the normal use of this product. Wear protective gloves when working with

large quantities.

Eyes: Not required under normal conditions of use. Wear safety glasses or goggles if eye contact is

possible.

Skin: Not required for the normal use of this product. Wear protective clothing when working with

large quantities.

Respiratory protection: Not required for the normal use of this product. Respiratory protection is recommended as a

precaution to minimize exposure when handling this material in bulk.

### 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:** None known

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

### 11. TOXICOLOGICAL INFORMATION

There are no data for this formulation. The information included in this section describes the **General Information:** 

potential hazards of the active ingredient.

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

Tramadol Hydrochloride

Rat Oral LD50 228 mg/kg

Rat Intravenous LD50 57.6 mg/kg LD50 Rat Subcutaneous 286 mg/kg

Mouse Oral LD50 270 mg/kg

Mouse Intravenous LD50 60.4 mg/kg

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

**Tramadol Hydrochloride** 

6 Week(s) Rat Oral 20 mg/kg/day NOAEL

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26 Week(s) Dog Oral 10 mg/kg/day NOAEL

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

#### **Tramadol Hydrochloride**

Reproductive & Fertility Rat Oral 50-75 mg/kg NOAEL Fertility

Embryo / Fetal Development Oral 25 mg/kg LOAEL Maternal Toxicity, Fetotoxicity Rat Embryo / Fetal Development Maternal Toxicity, Fetotoxicity Rabbit Oral 75 mg/kg LOAEL Embryo / Fetal Development Mouse Oral 120 mg/kg LOAEL Maternal Toxicity, Fetotoxicity Peri-/Postnatal Development Oral LOAEL Maternal Toxicity, Fetotoxicity Rat 50 mg/kg

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

#### **Tramadol Hydrochloride**

Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative

In Vivo Chromosome Aberration Chinese Hamster Ovary (CHO) cells Negative

In Vivo Micronucleus Mouse Bone Marrow Negative

In Vitro Micronucleus Rat Positive

In Vitro Mammalian Cell Mutagenicity Mouse Lymphoma Positive

### Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

#### **Tramadol Hydrochloride**

2 Year(s) Mouse Oral 30 mg/kg/day LOAEL Liver, Lungs, Tumors 2 Year(s) Rat Oral 30 mg/kg/day NOAEL Not carcinogenic

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

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**OSHA Label:** 

**WARNING** 

Harmful if swallowed.

May cause central nervous system effects

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 1, Subdivision B



Water for injection

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

Australia (AICS):

EU EINECS List

Present
231-791-2

Sodium acetate

Inventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentEU EINECS List204-823-8

# **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 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 10 - Stability and Reactivity. Updated Section 11 - Toxicology Information. 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**