

Revision date: 21-Jul-2011 Version: 1.0 Page 1 of 8

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

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Material Name: Tilidine Hydrochloride Drops

Trade Name: VALORON

Synonyms: Tilidne HCI Solution

Opiod **Chemical Family:**

Intended Use: Pharmaceutical product used as opioid analgesic

2. HAZARDS IDENTIFICATION

Clear, colorless, liquid Appearance:

Signal Word: WARNING

Statement of Hazard: Harmful if swallowed.

Additional Hazard Information:

May cause central nervous system effects. May cause drowsiness, insomnia, nervousness, **Short Term:**

and dizziness. May cause eye irritation (based on components) .

Long Term: Repeat-dose studies in animals have shown a potential to cause adverse effects on liver. This

product contains ethanol which can cause liver changes, central nervous system effects, and

birth defects in the developing fetus.

Known Clinical Effects: May cause effects similar to those seen in clinical use including fatigue, feelings of relaxation,

unpleasantness or drunkeness, lightheadedness, nervousness, dizziness, nausea, vomiting,

dry mouth, dry eyes, itching, and slow breathing and/or heart rate.

EU Indication of danger: Harmful

EU Hazard Symbols:

EU Risk Phrases:

Australian Hazard Classification

R22 - Harmful if swallowed.

Hazardous Substance. Dangerous Goods.

(NOHSC):

PZ00578

Material Name: Tilidine Hydrochloride Drops Page 2 of 8
Revision date: 21-Jul-2011 Version: 1.0

Nevision date. 21-odi-2011

2. HAZARDS IDENTIFICATION

Note:

This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Tilidine hydrochloride	27107-79-5	248-226-0	T;R25	10
Ethanol	64-17-5	200-578-6	F;R11	19

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Sodium propylparaben	35285-69-9	252-488-1	Not Listed	*
Sodium Methyl p-Hydroxybenzoate	5026-62-0	225-714-1	Not Listed	*
(methylparaben sodium)				
Sorbitol solution	50-70-4	200-061-5	Not Listed	*

Additional Information: * Proprietary

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

safety.

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Eye Contact: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

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.

Symptoms and Effects of Exposure: For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Identification and/or Section 11 - Toxicological Information.

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.

Fine / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Material Name: Tilidine Hydrochloride Drops Page 3 of 8
Revision date: 21-Jul-2011 Version: 1.0

Version 44:6. 2.7 64: 26.7

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: Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use

appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the

atmosphere should be controlled with dust collectors, HEPA filtration systems or other

equivalent controls.

Storage Conditions: Store as directed by product packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

Tilidine hydrochloride

Pfizer OEL TWA-8 Hr: 50µg/m³

Ethanol

ACGIH Threshold Limit Value (STEL) 1000 ppm

Australia TWA 1000 ppm 1880 mg/m³

Austria OEL - MAKs 1000 ppm

Austria GEL - MAKS 1000 ppm 1900 mg/m³

Belgium OEL - TWA 1000 ppm

1907 mg/m³ **Bulgaria OEL - TWA**1000.0 mg/m³

Czech Republic OEL - TWA1000 mg/m³Denmark OEL - TWA1000 ppm

1900 mg/m³
Estonia OEL - TWA 500 ppm

1000 mg/m³ **Finland OEL - TWA**1000 ppm

1900 mg/m³

France OEL - TWA 1000 ppm
1900 mg/m³

Germany - TRGS 900 - TWAs500 ppm
960 mg/m³

Germany (DFG) - MAK 500 ppm

960 mg/m³

Material Name: Tilidine Hydrochloride Drops Page 4 of 8
Revision date: 21-Jul-2011 Version: 1.0

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Greece OEL - TWA 1000 ppm 1900 mg/m³ **Hungary OEL - TWA** 1900 mg/m³ **Ireland OEL - TWAs** 1000 ppm 1900 mg/m³ Latvia OEL - TWA 1000 mg/m³ Lithuania OEL - TWA 500 ppm 1000 mg/m³ 260 mg/m³ **Netherlands OEL - TWA** 1000 ppm **OSHA - Final PELS - TWAs:** 1900 mg/m³ 1900 mg/m³ **Poland OEL - TWA** Portugal OEL - TWA 1000 ppm Romania OEL - TWA 1000 ppm 1900 mg/m³ Slovakia OEL - TWA 500 ppm 960 mg/m³ Slovenia OEL - TWA 1000 ppm 1900 mg/m³ Spain OEL - TWA 1000 ppm 1910 mg/m³ 500 ppm Sweden OEL - TWAs 1000 mg/m³

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

room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne

contamination levels below the exposure limits listed above in this section.

Environmental Exposure Controls: Refer to specific Member State legislation for requirements under Community environmental

legislation.

Personal Protective Equipment: Refer to applicable national standards and regulations in the selection and use of personal

protective equipment (PPE).

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

Eyes: Wear safety glasses or goggles if eye contact is possible.

Skin: Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations.

Respiratory protection: If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate

respirator with a protection factor sufficient to control exposures to below the OEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Clear, colorless

Odor: Alcohol, Menthol Molecular Formula: Mixture

Molecular Weight: Mixture

pH: 1.5 - 2.0

Specific Gravity: 1.08 to 1.1(25 °C)

Polymerization: Will not occur

Page 5 of 8

Material Name: Tilidine Hydrochloride Drops

Revision date: 21-Jul-2011 Version: 1.0

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

Conditions to Avoid: Fine particles (such as dust and mists) may fuel fires/explosions. **Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers

11. TOXICOLOGICAL INFORMATION

General Information: The information included in this section describes the potential hazards of the individual

ingredients.

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

Tilidine hydrochloride

Rat Oral LD50 < 200 (free base) mg/kg

Rat Intragastric LD50 417.7 mg/kg
Rat Intravenous LD50 71 mg/kg
Rat Intramuscular LD50 387 mg/kg
Rat Subcutaneous LD50 400 mg/kg

Ethanol

Mouse Oral LD50 3,450 g/m³
Rat Oral LD50 7,060 mg/kg
Mouse Inhalation LC50 4h 39 g/m³
Rat Inhalation LC50 10h 20,000 ppm

Sorbitol solution

Rat Oral LD50 15,900 mg/kg Mouse Oral LD50 17,800 mg/kg

Irritation / Sensitization: (Study Type, Species, Severity)

Tilidine hydrochloride

Skin Sensitization - GPMT Guinea Pig Negative

Ethanol

Eye Irritation Rabbit Severe

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

Tilidine hydrochloride

6 Month(s) Rat Oral 25 mg/kg/day NOAEL Liver

6 Month(s) Dog Oral 25 mg/kg/day NOAEL None identified 8 Month(s) Rat Subcutaneous 50 mg/kg/day LOEL Liver

8 Month(s) Dog Intravenous 9 mg/kg/day NOAEL None identified

Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Tilidine hydrochloride

Reproductive & Fertility Rat No route specified 50 mg/kg/day NOAEL No effects at maximum dose

Embryo / Fetal Development Rat Oral 100 mg/kg/day NOAEL No effects at maximum dose

Embryo / Fetal Development Rat Subcutaneous 25 mg/kg/day NOAEL No effects at maximum dose

Embryo / Fetal Development Rabbit Oral 50 mg/kg/day NOAEL No effects at maximum dose

Peri-/Postnatal Development Rat Oral 25 mg/kg/day NOAEL Neonatal toxicity

PZ00578

Material Name: Tilidine Hydrochloride Drops Page 6 of 8

Revision date: 21-Jul-2011 Version: 1.0

11. TOXICOLOGICAL INFORMATION

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

Tilidine hydrochloride

Not specified Mouse No route specified 100 mg/kg/day NOEL Not carcinogenic Not specified Rat No route specified 100 mg/kg/day NOEL Not carcinogenic

Carcinogen Status: None of the other components of this mixture are listed as a carcinogen by IARC, NTP or

OSHA.

Ethanol

IARC: Group 1 (Carcinogenic to Humans)

OSHA: Listed

12. ECOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this material have not been fully evaluated. Releases to

the environment should be avoided.

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Ethanol

Fingerling Trout NPDES LC50 24 Hours 11,200 mg/L

Oncorhynchus mykiss (Rainbow Trout) NPDES LC50 96 Hours 12,900 mg/L Pimephales promelas (Fathead Minnow) NPDES LC50 96 Hours 14,200 mg/L

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

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

15. REGULATORY INFORMATION

EU Symbol: Xn
EU Indication of danger: Harmful

EU Risk Phrases:

R22 - Harmful if swallowed.

Material Name: Tilidine Hydrochloride Drops Page 7 of 8
Revision date: 21-Jul-2011 Version: 1.0

Version 44:6. 2.7 64: 26.7

15. REGULATORY INFORMATION

EU Safety Phrases:

S23 - Do not breathe fumes/vapour/spray.

S45 - In case of accident or if you feel unwell seek medical advice immediately (show the label

where possible).

OSHA Label:

WARNING

Harmful if swallowed.

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 1, Subdivision B



Tilidine hydrochloride

U.S. Drug Enforcement Administration: Schedule I EU EINECS/ELINCS List 248-226-0

Ethanol

California Proposition 65 developmental toxicity initial date 10/1/87

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

Australia (AICS):

EU EINECS/ELINCS List

Present
200-578-6

Sodium propylparaben

Australia (AICS): Present EU EINECS/ELINCS List 252-488-1

Sodium Methyl p-Hydroxybenzoate (methylparaben sodium)

Australia (AICS): Present EU EINECS/ELINCS List 225-714-1

Sorbitol solution

Inventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentREACH - Annex IV - Exemptions from thePresent

obligations of Register:

EU EINECS/ELINCS List 200-061-5

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

Material Name: Tilidine Hydrochloride Drops Page 8 of 8
Revision date: 21-Jul-2011 Version: 1.0

R25 - Toxic if swallowed. R11 - Highly flammable.

Data Sources: Safety data sheets for individual ingredients. Pfizer proprietary drug development information.

Publicly available toxicity information.

Prepared by: Product Stewardship Hazard Communication

Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet
