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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: Verapamil Hydrochloride

Trade Name: Not applicable Synonyms: SE-00577 Chemical Family: Phenylalkylamine

Intended Use: Pharmaceutical active used for Antianginal; antihypertensive.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

TALEST WOOD				
Ingredient	CAS Number	EU EINECS List	%	
Verapamil Hydrochloride	152-11-4	205-800-5	100	

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

safety.

3. HAZARDS IDENTIFICATION

Appearance: White crystalline powder

Signal Word: DANGER

Statement of Hazard: Toxic if swallowed.

Suspected of damaging the unborn child.

Known Clinical Effects: May cause low blood pressure and dizziness. Occasional, transient changes reported in liver

function tests, but no liver damage seen. This material has been shown to be secreted in low

concentrations in human breast milk.

EU Indication of danger: Toxic to Reproduction; Category 3

Toxic

EU Hazard Symbols:



EU Risk Phrases:

R25 - Toxic if swallowed.

R63 - Possible risk of harm to the unborn child.

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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: 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.

5. FIRE FIGHTING MEASURES

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

Hazardous Combustion Products: May emit toxic fumes such as oxides of nitrogen and chlorine gas.

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

contained breathing apparatus.

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

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 spilled material by a method that

controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. 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 dust. Minimize dust generation and accumulation. Use with adequate

ventilation.

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

flames. Protect from light.

Storage Temperature: (15-25°C)

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

Verapamil Hydrochloride

Pfizer Occupational Exposure OEB3 (control exposure to the range of >10ug/m³ to < 100ug/m³)

Band (OEB):

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 two layers of disposable gloves.

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: Crystalline powder Color: White

Odor: Very faint Molecular Formula: C27H38N2O4.HCl

Molecular Weight: 491.08

Solvent Solubility: Soluble: Chloroform, Methanol

Solubility: Soluble: Water Melting/Freezing Point (°C): 140.5 - 144

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

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.

Hazardous Decomposition Products: May release carbon monoxide, carbon dioxide, and hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

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

Verapamil Hydrochloride

Rat Oral LD 50 108 mg/kg

Mouse Oral LD 50 163 mg/kg

Rat Intravenous LD 50 16 mg/kg

Mouse Intravenous LD 50 5795 mg/kg

Rat Subcutaneous LD 50 107 mg/kg

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<u>Irritation / Sensitization: (Study Type, Species, Severity)</u>

Verapamil Hydrochloride

Skin Irritation Rabbit Mild

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

Verapamil Hydrochloride

Reproductive & Fertility Rat Oral 55 mg/kg/day NOAEL Fertility

Embryo / Fetal Development Rat Oral 60 mg/kg/day NOAEL Not Teratogenic Embryo / Fetal Development Rat Oral 60 mg/kg/day LOAEL Fetotoxicity

Embryo / Fetal Development Rabbit Oral 15 mg/kg/day NOAEL Not Teratogenic

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

Verapamil Hydrochloride

Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative

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

Verapamil Hydrochloride

18 Month(s) Rat Oral 58 mg/kg/day NOAEL Not carcinogenic 2 Year(s) Rat Oral 120 mg/kg/day NOAEL Not carcinogenic

Carcinogen Status: Not listed as a carcinogen by IARC, NTP or US 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: The material should be disposed of by incineration in a chemical incinerator in compliance with

national and regional requirements.

14. TRANSPORT INFORMATION

This material is regulated for transportation as a hazardous material/dangerous good.

Proper shipping name: Toxic solid, organic, n.o.s. (Verapamil Hydrochloride)

UN / ID No: UN 2811 Hazard class: 6.1 Packing group: III

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15. REGULATORY INFORMATION

EU Symbol:

EU Indication of danger: Toxic to Reproduction; Category 3

Toxic

EU Risk Phrases:

R25 - Toxic if swallowed.

R63 - Possible risk of harm to the unborn child.

EU Safety Phrases:

S22 - Do not breathe dust.

S36/37 - Wear suitable protective clothing and gloves.

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

where possible).

S53 - Avoid exposure - obtain special instructions before use.

OSHA Label:

DANGER

Toxic if swallowed.

Suspected of damaging the unborn child.

Canada - WHMIS: Classifications

WHMIS hazard class:

D2a very toxic materials D1b toxic materials



Verapamil Hydrochloride EU EINECS List

205-800-5

16. OTHER INFORMATION

Prepared by: Corporate Occupational Toxicology & Hazard Assessment

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.

End of Safety Data Sheet