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

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Pfizer Pharmaceuticals Group
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Emergency telephone number: Emergency telephone number:

Material Name: Meclizine hydrochloride chewable tablets

**Trade Name:** Bonine(R); Bonamine(TM)

Chemical Family: Mixture

Intended Use: Pharmaceutical product for the treatment of nausea and vomiting (antiemetic).

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Hazardous**

| Ingredient                | CAS Number | EU EINECS List | %    |
|---------------------------|------------|----------------|------|
| Meclizine hydrochloride   | 31884-77-2 | Not listed     | 12.5 |
| Colloidal silicon dioxide | 7631-86-9  | 231-545-4      | *    |
| Starch                    | 9005-25-8  | 232-679-6      | *    |
| Sodium saccharin USP      | 128-44-9   | 204-886-1      | *    |
| Magnesium stearate        | 557-04-0   | 209-150-3      | *    |
| Talc (non-asbestiform)    | 14807-96-6 | 238-877-9      | *    |

| Ingredient              | CAS Number   | <b>EU EINECS List</b> | % |
|-------------------------|--------------|-----------------------|---|
| FD & C Red No. 40       | 25956-17-6   | 247-368-0             | * |
| Lactose NF, monohydrate | 64044-51-5   | Not listed            | * |
| Rasberry flavor         | NOT ASSIGNED | Not listed            | * |

Additional Information: \* Proprietary

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

safety.

# 3. HAZARDS IDENTIFICATION

Appearance:Pink tabletsSignal Word:WARNING

**Statement of Hazard:** May be harmful if swallowed.

May cause central nervous system effects.

Known Clinical Effects: Adverse effects most commonly reported in clinical use include sleepiness, drowsiness,

fatigue, headache, dizziness, and dry mouth

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:** Wash skin with soap and water. Remove contaminated clothing and shoes. 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 immediately. 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

immediately.

# 5. FIRE FIGHTING MEASURES

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

Hazardous Combustion Products: May emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride

and other chlorine-containing compounds.

Fire Fighting Procedures: Wear approved positive pressure, self-contained breathing apparatus and full protective turn

out gear. Evacuate area and fight fire from a safe distance.

Fire / Explosion Hazards: Not available

# 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:** Minimize dust generation and accumulation. Use appropriate ventilation. If tablets or capsules

are crushed and/or broken, avoid breathing dust and avoid contact with eyes, skin, and

clothing.

Storage Conditions: Keep container tightly closed when not in use. Store out of direct sunlight in a well ventilated

area at room temperature.

Storage Temperature: 15-30°C

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**ACGIH Threshold Limit Value (TWA)** 

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Meclizine hydrochloride

Pfizer OEL TWA-8 Hr: 0.07 mg/m<sup>3</sup>

Colloidal silicon dioxide

OSHA - Final PELs - Table Z-3 Mineral D: (80)/(% SiO2) mg/m³ TWA

= 20 mppcf TWA

Australia TWA = 2 mg/m<sup>3</sup> TWA

Starch

**OSHA - Final PELS - TWAs:** = 15 mg/m<sup>3</sup> TWA total

= 5 mg/m<sup>3</sup> TWA = 10 mg/m<sup>3</sup> TWA

Australia TWA = 10 mg/m<sup>3</sup> TWA

Magnesium stearate

ACGIH Threshold Limit Value (TWA) = 10 mg/m<sup>3</sup> TWA except stearates of toxic metals

Australia TWA =  $10 \text{ mg/m}^3 \text{ TWA}$ 

Talc (non-asbestiform)

OSHA - Final PELs - Table Z-3 Mineral D: = 20 mppcf TWA
ACGIH Threshold Limit Value (TWA) = 2 mg/m³ TWA

**Australia TWA** = 2.5 mg/m³ TWA containing no asbestos fibers

The exposure limit(s) listed for solid components are only relevant if dust may be generated.

**Analytical Method:** Analytical method available for Meclizine. Contact Pfizer Inc for further information.

**Engineering Controls:** Good general ventilation should be sufficient to control airborne levels.

**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: None required under normal conditions of use. 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:TabletColor:PinkOdor:OdorlessMolecular Formula:Mixture

Molecular Weight: Mixture

# 10. STABILITY AND REACTIVITY

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Stability:StableConditions to Avoid:None knownIncompatible Materials:Strong oxidizers

Hazardous Decomposition Products: No data available See Section 5 - under Hazardous combustion products.

Polymerization: Will not occur

## 11. TOXICOLOGICAL INFORMATION

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

Talc (non-asbestiform)

Rat Oral LD50 > 1600 mg/kg

Starch

Mouse IP LD50 6600 mg/kg

Sodium saccharin USP

Mouse Oral LD50 17.5 g/kg Rat Oral LD50 14.2 - 17 g/kg

Magnesium stearate

Rat Oral LD50 > 2000 mg/kg Rat Inhalation LC50 > 2000 mg/m<sup>3</sup>

Meclizine hydrochloride

Mouse Oral LD50 1600 mg/kg Rat Oral LD50 1750 mg/kg (free base)

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

**Ingestion Acute Toxicity**The acute oral LD50 for the active ingredient is listed in the table, above. While this

formulation has not been tested as a whole, it would not be expected to be toxic orally based

on the amount of active ingredient it contains.

Subchronic Effects Subchronic toxicity studies in dogs and rats for six months showed no abnormal symptoms or

changes.

Chronic Effects/Carcinogenicity No long-term toxicity studies have been conducted to evaluate the chronic toxicity or

carcinogenic potential of this material.

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

Meclizine hydrochloride

Embryo / Fetal Development Rat Oral 625-2500 mg/kg/day LOEL Teratogenic

Embryo / Fetal Development Rabbit No route specified Not Teratogenic Embryo / Fetal Development Rabbit No route specified Not Teratogenic Embryo / Fetal Development Monkey No route specified Not Teratogenic Not Teratogenic

**Teratogenicity** Epidemological studies in pregnant women revealed no increased risk of abnormalities due to

meclizine treatment. However, animal studies in mice, rats, and rabbits showed specific

developmental abnormalities at maternally toxic doses.

Mutagenicity No data available

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

Talc (non-asbestiform)

IARC: Group 3

Sodium saccharin USP

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IARC: Group 3

Colloidal silicon dioxide

IARC: Group 3

At increase risk from exposure: Individuals with a history of hypersensitivity to this material or other materials in its chemical

class may be susceptible to the toxicity of overexposure. Individuals with asthma, glaucoma, or enlarged prostate gland and individuals taking central nervous system depressants (alcohol,

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hypnotics, narcotics, barbiturates) should avoid exposure to this material.

Additional Information: Phrase does not exist! Reproduction studies in rats have shown cleft palates. Epidemiological

studies in pregnant women, however, do not indicate that meclizine increases the risk of abnormalities when administered during pregnancy. Despite the animal finidings, it would

appear that the possibility of fetal harm is remote.

# 12. ECOLOGICAL INFORMATION

**Environmental Overview:** The use and/or disposal of this material, its metabolites and degradation products is not

expected to cause adverse effects upon animals, plants, humans, other organisms, or the

environment.

## 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:

**WARNING** 

May be harmful if swallowed.

May cause central nervous system effects.

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.

Meclizine hydrochloride

Australia (AICS): Present

Colloidal silicon dioxide

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

Australia (AICS):

EU EINECS List

Present
231-545-4

Starch

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

Australia (AICS):

EU EINECS List

XU

Present
232-679-6

Sodium saccharin USP

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

Australia (AICS):

EU EINECS List

Present
204-886-1

FD & C Red No. 40

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

Australia (AICS):

EU EINECS List

Present
247-368-0

Lactose NF, monohydrate

Australia (AICS): Present

Magnesium stearate

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

Australia (AICS):

Present

EU EINECS List

209-150-3

Talc (non-asbestiform)

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

Australia (AICS):

EU EINECS List

Present
238-877-9

# 16. OTHER INFORMATION

**Reasons for Revision:** Updated Section 2 - Composition / Information on Ingredients. Updated Section 3 - Hazard

Identification. Updated Section 6 - Accidental Release Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. 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

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 a warranty of any kind, expressed or implied.

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