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IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

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Material Name: Nitroglycerin Transdermal Patch

Trade Name: ADESITRIN, TRINIPATCH, NITRADISC Chemical Family: Mixture

Intended Use: Pharmaceutical product for the treatment of angina pectoris

2. HAZARDS IDENTIFICATION

Appearance: Patch Signal Word: DANGER

Statement of Hazard: Toxic if swallowed.

Toxic if inhaled.

Toxic in contact with skin.

Toxic to aquatic life with long lasting effects.

Additional Hazard Information:

Short Term: May be absorbed through the skin and cause systemic effects. Chest pain, acute myocardial

infarction, and sudden death have occurred during temporary withdrawal of organic nitrates

from industrial workers exposed for long periods of time.

Known Clinical Effects: Headache, which may be severe and persistent, may occur immediately after use. Vertigo,

dizziness, weakness, palpitation, and other manifestations of postural hypotension may develop occasionally. Flushing, drug rash, and exfoliative dermatitis have been reported in

patients receiving nitrate therapy.

EU Indication of danger: Toxic

Dangerous for the Environment

EU Hazard Symbols:



EU Risk Phrases:

R33 - Danger of cumulative effects.

R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

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2. HAZARDS IDENTIFICATION

Australian Hazard Classification (NOHSC):

Hazardous Substance. Non-Dangerous Goods.

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	%
Nitroglycerin	55-63-0	200-240-8	E;R3	5, 10, or 15 mg
			N;R51-53	
			R33	
			T+;R26/27/28	

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Acrylic-vinyl acetate copolymer	Not assigned	Not Listed	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.

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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 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. Avoid contact with eyes, skin and clothing. Avoid

breathing dust. When handling, use appropriate personal protective equipment (see Section 8). Wash hands and any exposed skin after removal of PPE. 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.

Nitroglycerin

ACGIH Threshold Limit Value (TWA) 0.05 ppm TWA

ACGIH - Skin Absorption Designation Listed
Australia TWA 0.05 ppm

0.46 mg/m³

Austria OEL - MAKs

Belgium OEL - TWA

Listed

Czech Republic OEL - TWAListedEstonia OEL - TWAListedFinland OEL - TWAListedFrance OEL - TWAListed

Germany - Biological Exposure Limit:

Greece OEL - TWA

Hungary OEL - TWA

Listed

Ireland OEL - TWAs

Listed

Japan - OELs - Ceilings

0.05 ppm

0.05 ppm 0.46 mg/m³

Lithuania OEL - TWA

OSHA - Final PELs - Skin Notations:

Poland OEL - TWA

Listed

Portugal OEL - TWA

Listed

Romania OEL - TWA Listed

D704450

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100000

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Slovenia OEL - TWA Listed
Spain OEL - TWA Listed
Sweden OEL - TWAs Listed
UK - Biological Exposure Limit: Listed

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: Patch Color: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

The active ingredient in this formulation is highly explosive. However, based on the amount of

active ingredient contained in this product it is not expected to pose an explosion risk.

Polymerization: Will not occur

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

Conditions to Avoid: Avoid direct sunlight, conditions that might generate heat, and sources of ignition.

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

Hazardous Decomposition Products: None known

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)

Nitroglycerin

Rat Oral LD50 105 mg/kg Mouse Oral LD50 115 mg/kg Rabbit Dermal LD50 > 280 mg/kg Rat Dermal LD50 > 29 mg/kg

Rat IV LD50 23.2 mg/kg

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11. TOXICOLOGICAL INFORMATION

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.

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

Nitroglycerin

Fertility and Embryonic Development Rat Oral 434 mg/kg/day NOAEL Negative Embryo / Fetal Development Rabbit Oral 240 mg/kg/day NOAEL Not Teratogenic

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

Nitroglycerin

Bacterial Mutagenicity (Ames) Salmonella Positive In Vivo Dominant Lethal Assay Rat Negative In Vitro Cytogenetics Negative

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

Nitroglycerin

2 Year(s) Oral 434 mg/kg/day LOAEL Liver, Male reproductive system Rat

2 Year(s) Mouse Oral 1058 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: Releases to the environment should be avoided.

Bioaccumulation and Toxicity: See aquatic toxicity data, below.

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

Nitroglycerin

Lepomis macrochirus (Bluegill Sunfish) LC50 96 Hours 1.91 mg/L

Midge 48 Hours 20 mg/L LC50

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.

Nitroglycerin

RCRA - P Series Wastes Listed

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.

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15. REGULATORY INFORMATION

EU Symbol: T N **EU Indication of danger:** Toxic

Dangerous for the Environment

EU Risk Phrases:

R33 - Danger of cumulative effects.

R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

EU Safety Phrases:

S22 - Do not breathe dust.

S36 - Wear suitable protective clothing.

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

where possible).

S57 - Use appropriate containment to avoid environmental contamination.

OSHA Label:

DANGER

Toxic if swallowed. Toxic if inhaled.

Toxic in contact with skin.

Toxic to aquatic life with long lasting effects.

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision B



Nitroglycerin

CERCLA/SARA 313 Emission reporting 1.0% de minimis concentration

CERCLA/SARA Hazardous Substances 10 lb final RQ and their Reportable Quantities: 4.54 kg final RQ

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

Australia (AICS):

Listed

Standard for the Uniform Scheduling Schedule 2 for Drugs and Poisons: Schedule 3

Schedule 4
EU EINECS/ELINCS List 200-240-8

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16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R 3 - Extreme risk of explosion by shock, friction, fire or other sources of ignition.

R33 - Danger of cumulative effects.

R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Data Sources: Publicly available toxicity information. Safety data sheets for individual ingredients.

Prepared by: Product Stewardship Hazard Communications

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
