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QUAD PHARMACEUTICALS INC. -- NITROGLYCERIN INJECTION, USP -- 6505-01-290-6853

======== Product Identification ============

Product ID:NITROGLYCERIN INJECTION, USP

MSDS Date:02/20/1988

FSC:6505

NIIN:01-290-6853

MSDS Number: BHHRK === Responsible Party ===

Company Name: QUAD PHARMACEUTICALS INC.

Address:6340 LA PAS TRAIL

City: INDIANAPOLIS

State:IN ZIP:46268 Country:US

Info Phone Num:317-299-6611

Emergency Phon e Num:800-222-6925

Preparer's Name: REGULATORY AFFAIRS

CAGE:0B1W2

=== Contractor Identification ===

Company Name: QUAD PHARMACEUTICALS INC

Address:6340 LA PAS TRL Box:City:INDIANAPOLIS

State:IN ZIP:46268 Country:US CAGE:0B1W2

======= Composition/Information on Ingredients ========

Ingred Name: NITROGLYCERIN (NG)

CAS:55-63-0

RTECS #:WG9532700

OSHA PEL:S,C, 0.2 MG/M3 STEL ACGIH TLV:S, 0.46 MG/M3; 9293

EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:PROPYLENE GLYCOL

CAS:57-55-6

RTECS

=========== Hazards Identification ==========================

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYES:NO IRRITATION IS LIKELY TO DEVELOP. SKIN:NITROGLYCERIN PENETRATES SKIN RAPIDLY AND CAN INDUCE METHEMOGLOBIN FORMATION IN THE BLOOD AFTER SEVERE EXPOSURE. INHALATION:METHEMOGLOBINEMIA CAN DEVELOP FOLLOWING INHALATION OF VAPORS OF THIS MATERIALS.

Explana

tion of Carcinogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

Effects of Overexposure:METHEMOGLOBIN FORMATION, CYANOSIS, EUPHORIA, HEADACHE, FLUSHED FACE, LIGHT-HEADEDNESS, ATAXIA, WEAKNESS, RAPIED HEARTBEAT, LABORED BREATHING, NAUSEA, CONFUSION, BLURRED VISION, REDUCED BLOOD PRESSURE, A ND FAINTING.

Medical Cond Aggravated by Exposure: PERSONS WITH A HISTORY OF SKIN AND RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

| First Aid Measures | |
|------------------------|--|
| | |

First Aid:INHALATION: REMOVE SUBJECT TO FRESH AIR. EYE: FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER.

| ======================================= | Fire | Fighting | Measures | |
|---|------|----------|----------|--|
|---|------|----------|----------|--|

Flash Point:210F,99C

Extinguishing Media:USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG.

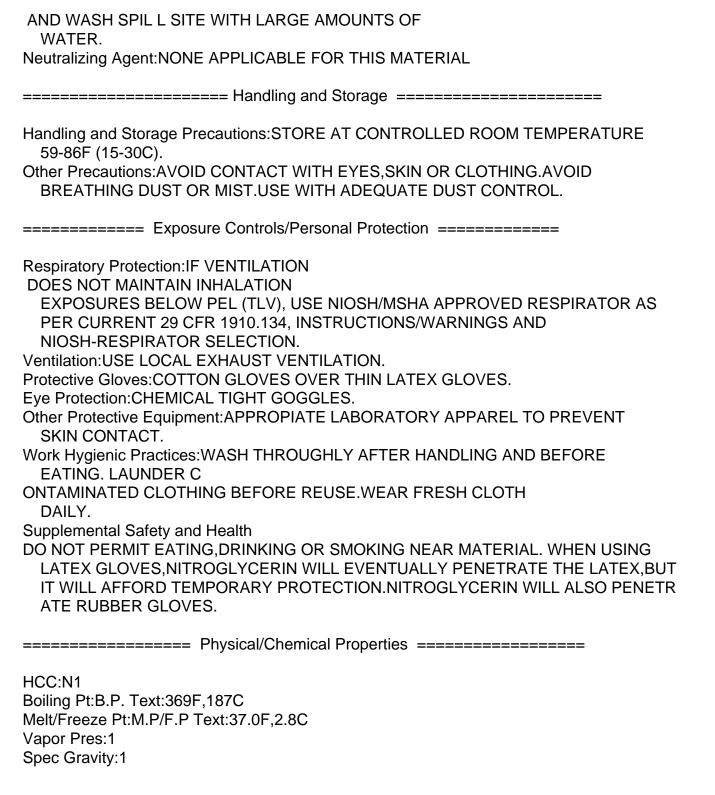
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTE

CTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard: COOL FIRE EXPOSED CONTAINERS TO KEEP GLASS VIALS FROM EXPLODING.

| | Accidental Release Measures | |
|--|-----------------------------|--|
|--|-----------------------------|--|

Spill Release Procedures:WEAR APPROVED RESPIRATOR AND GLOVES.SOAK UP IN INERT MATERIAL.AVOID DUST GENERATION.PLACE SPILLAGE IN APPROPIATE DISPOSAL CONTAINER.WASH CONTAMINATED CLOTHING BEFORE REUSE.VENTILATE AREA



| Solubility in Water:SLIGHTLY SOLUBLE. Appearance and Odor:CLEAR COLORLESS OR PALE YELLOW OILY LIQUID. |
|---|
| ========= Stability and Reactivity Data ========== |
| Stability Indicator/Materials to Avoid:YES NONE NOTED. Stability Condition to Avoid:HIGH TEMPERATURES, OPEN FLAMES Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE, NITROGEN OXIDES. |
| ======= Disposal Considerations ========== |

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WIT H ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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