

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.
Explanation 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, RAPID HEARTBEAT, LABORED BREATHING,NAUSEA, CONFUSION, BLURRED VISION, REDUCED BLOOD PRESSURE, AND FAINTING.
Medical Condition 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 PROTECTIVE 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 APPROPRIATE DISPOSAL CONTAINER.WASH CONTAMINATED CLOTHING BEFORE REUSE.VENTILATE AREA

AND WASH SPILL SITE WITH LARGE AMOUNTS OF WATER.

Neutralizing Agent:NONE APPLICABLE FOR THIS MATERIAL

===== Handling and Storage =====

Handling and Storage Precautions:STORE AT CONTROLLED ROOM TEMPERATURE 59-86F (15-30C).

Other Precautions:AVOID CONTACT WITH EYES,SKIN OR CLOTHING.AVOID BREATHING DUST OR MIST.USE WITH ADEQUATE DUST CONTROL.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH-RESPIRATOR SELECTION.

Ventilation:USE LOCAL EXHAUST VENTILATION.

Protective Gloves:COTTON GLOVES OVER THIN LATEX GLOVES.

Eye Protection:CHEMICAL TIGHT GOGGLES.

Other Protective Equipment:APPROPRIATE LABORATORY APPAREL TO PREVENT SKIN CONTACT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING. LAUNDRY

CONTAMINATED CLOTHING BEFORE REUSE.WEAR FRESH CLOTHING DAILY.

Supplemental Safety and Health

DO NOT PERMIT EATING,DRINKING OR SMOKING NEAR MATERIAL. WHEN USING LATEX GLOVES,NITROGLYCERIN WILL EVENTUALLY PENETRATE THE LATEX,BUT IT WILL AFFORD TEMPORARY PROTECTION.NITROGLYCERIN WILL ALSO PENETRATE RUBBER GLOVES.

===== Physical/Chemical Properties =====

HCC:N1

Boiling Pt:B.P. Text:369F,187C

Melt/Freeze Pt:M.P/F.P Text:37.0F,2.8C

Vapor Pres:1

Spec Gravity:1

.065
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 WITH ALL APPLICABLE
FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.