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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 Pho** ne 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

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 RTEC 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.

Explan

ation 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: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.

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 PROT

ECTIVE 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.

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 ARE A AND WASH SPIL L SITE WITH LARGE AMOUNTS OF WATER. Neutralizing Agent:NONE APPLICABLE FOR THIS MATERIAL 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. Respiratory Protection: IF VENTILATIO N 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: APPROPIATE LABORATORY APPAREL TO PREVENT SKIN CONTACT. Work Hygienic Practices: WASH THROUGHLY AFTER HANDLING AND BEFORE EATING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.WEAR FRESH CLOTH 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 PENETR ATE RUBBER GLOVES. 

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 Indicator/Materials to Avoid:YES NONE NOTED. Stability Condition to Avoid:HIGH TEMPERATURES, OPEN FLAMES Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE, NITROGEN OXIDES.

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

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