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BOSCH BRAKING SYSTEMS -- BRAKE SYSTEM HYDRO-BOOST, (SEE SUPPL.) -- 2530-01-437-4242

Product ID:BRAKE SYSTEM HYDRO-BOOST, (SEE SUPPL.) MSDS Date:04/22/1999 FSC:2530 NIIN:01-437-4242 Status Code:A MSDS Number: CLHPQ === Responsible Party === Company Name: BOSCH BRAKING SYSTEMS Address:3737 RED ARROW HIGHWAY City:ST. JOSEPH State:MI ZIP:48085 Country:US Info Phone Nu m:(616) 428-6385 Emergency Phone Num:(616) 428-7500 Resp. Party Other MSDS Num.: BBS0002 CAGE:UO639 === Contractor Identification === Company Name: BOSCH BRAKING SYSTEMS Address:3737 RED ARROW HIGHWAY Box:City:ST. JOSEPH State:MI ZIP:48085 Country:US Phone:(616) 428-6385 CAGE:UO639 Company Name: GENERAL MOTORS CORP Address: GENERAL MOTORS BUILDING 3044 GRAND BLVDW Box:City:DETROIT State:MI ZIP:48202-3091 Country:US Phone:301-258-1535 CAGE:24617

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

Ingred Name:NITROGEN (GASEOUS STATE) CAS:7727-37-9 RTECS #:QW9700000 = Wt:100.

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

Health Hazards Acute and Chronic:SKIN: DO NOT EXPOSE SKIN TO VENTING GAS FROM CYLINDER, WHICH CAN CAUSE BURNS AND BLISTERS. EYES: MAY CAUSE CRYOGENIC BURNS IF EXPOSED TO VENTING GAS. INHALATION: NITROGEN IS AN ASP

HYXIANT. NITROGEN UN DER HIGH PRESSURE CAN CAUSE NARCOSIS EVEN THOUGH SUFFICIENT OXYGEN IS PRESENT. THE QUANTITY CONTAINED IN THE BRAKE SYSTEM ACCUMULATOR IS NOT EXPECTED TO PRODUCE A HAZARDOUS ATMOSPHERE. INGESTION: NOT AN ANTICIPATED ROUTE OF ENTRY. DELAYED EFFECTS: NONE EXPECTED.

Explanation of Carcinogenicity:NITROGEN IS NOT ON THE CARCINOGEN LISTS OF NTP STATUS, IARC STATUS, OSHA LIST.

Effects of Overexposure:SKIN: BURNS AND BLISTERS. EYES: CRYOGENIC BURNS IF EXPOSE

D TO VENTING GAS. INHALATION: NITROGEN IS AN ASPHYXIANT. NITROGEN UNDER HIGH PRESSURE CAN CAUSE NARCOSIS EVEN THOUGH SUFFICIENT OXYGEN IS PRESE NT. THE QUANTITY CONTAINED IN THE BRAKE SYSTEM ACCUMULATOR IS NOT EXPECTED TO PRODUCE A HAZARDOUS ATMOSPHERE. INGESTION: NOT AN ANTICIPATED ROUTE OF ENTRY. DELAYED EFFECTS: NONE EXPECTED.

First Aid:NOTE: IF ANY OF THE SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION IM

MEDIATELY. SKIN: WASH SKIN BY FLOODING OR SOAKING WITH WARM WATER (105-115F, 41-45C). DO NOT USE HOT WATER. EYES: FLOOD EYES WITH WARM WA TER (105-115F, 41-45C). CONTACT A PHYSICIAN IMMEDIATELY. INHALATION: REMOVE AFFECTED PERSON TO FRESH AIR. CONTACT A PHYSICIAN IMMEDIATELY. INGESTION: NOT AN ANTICIPATED ROUTE OF ENTRY. ADVICE TO PHYSI CIAN: TREAT ACCORDING TO SYMPTOMS PRESENT.

Extinguishing Media:NOT FLA

MMABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR THE SURROUNDING AREA. Fire Fighting Procedures:NONE. Unusual Fire/Explosion Hazard:BRAKE SYSTEM ACCUMULATORS EXPOSED TO HIGH HEAT OR FLAME MAY VENT RAPIDLY.

Spill Release Procedures:WEAR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT. ALLOW BRAKE SYSTEMS ACCUMULATOR TO VENT SAFELY UNTIL GAS HAS ESCAPED. DO NOT ATTEMPT TO STOP GAS FROM VENTING FROM BRAKE SYSTEM ACCU

MULATOR. DO NOT BREA THE GAS. AVOID CONTACT WITH SKIN, EYES, CLOTHING. SPILLS AND RELEASES DO NOT HAVE TO BE REPORTED TO FEDERAL AND/OR LOCAL AUTHORITIES SINCE NO ESTABLISHED REPORTABLE QUANTITY (RQ) EXISTS FOR NITROGEN.

Handling and Storage Precautions:WEAR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT. DO NOT RUPTURE CONTAINER. AVOID CONTACT WITH EYES, SKIN , AND CLOTHING. PROTECTIVE CAPS SHOULD REMAIN ON THE BRAKE SYSTEM

ACCUMULATOR UNITS UNTIL INSTAL LATION.

Other Precautions:STORAGE: STORE IN A WELL-VENTILATED AREA AWAY FROM HEAVY TRAFFIC. STORE AWAY FROM SOURCES OF HEAT.

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

Respiratory Protection:NONE NORMALLY REQUIRED.

Ventilation: GENERAL VENTILATION IS SUFFICIENT TO DISSIPATE GAS SHOULD IT BE RELEASED.

Protective Gloves:NONE NORMALLY REQUIRED.

Eye Protection: SAFETY GLASSES ARE ADEQUATE FOR ALL USES.

Other Protective

Equipment:NONE NORMALLY REQUIRED.

Supplemental Safety and Health

VENDOR PART NUMBER: GENERAL MOTORS CORP. CAGE 24617: P/N 157 57258.

HCC:G3 Boiling Pt:=-195.8C, -320.5F Melt/Freeze Pt:=-210.C, -346.F Vapor Density:.073(AIR=1 Spec Gravity:0.967 (H20=1) Evaporation Rate & amp; Reference:HIGH COMPARED TO BUTYL AC Solubility in Water:1.52% BY VOLUME. Appearance and Odor:GASEOUS NITROGEN IS COLORLESS AND ODORLESS

Stability Indicator/Materials to Avoid:YES NONE.

Stability Condition to Avoid:DIRECT HEAT AND PRESSURE. NITROGEN IS STABLE AT NORMAL CONDITIONS OF ORDINARY USE, HANDLING AND STORAGE UNDER NORMAL TEMPERATURE AND PRESSURE. Hazardous Decomposition Products:NONE

Toxicological Information:IMMEDIATE (ACUTE) EFFECTS: SIMPLE ASPHYXIANT. DELAYED (SUBCHRONIC AND CHRONIC) EF FECTS: NONE EXPECTED. OTHER DATA: NONE.

Ecological:NONE EXPECTED.

Waste Disposal Methods:DISPOSE IN ACCORDANCE TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. UNUSED NITROGEN IS NOT A RCRA HAZARDOUS WASTE. THIS INFORMATION IS BASED ON PRODUCT AS SHIPPED. USE AND ALTERATIONS TO PR ODUCT SUCH AS MIXING WITH OTHER MATERIALS MAY CHA

NGE THE PRODUCT CHARACTERISTICS AND ALTER THE RCRA CLASSIFICATION AND THE PROPER DISPOSAL METHOD.

Transport Information:U.S. DOT HAZARD CLASS: CLASS 2.2 _ NONFLAMMABLE GAS; PROPER SHIPPING NAME: ACCUMULATORS, PRESSURIZED, PNEUMATIC OR HYDRAULIC (CONTAINS NON-FLAMMABLE NITROGEN GAS); NA 1956. IATA: HAZARD CLASS 2.2 - NO NFLAMMABLE GAS; PROPER SHIPPING NAME: ARTICLE, PRESSURIZED, PNEUMATIC CONTAINS NON-FLAM MABLE GAS. IATA: UN 3164.

SARA Title III Information:CERCLA: "REPORTABLE QUANTITIES" (RQ'S) AND/OR "THRESHOLD PLANNING QUANTITIES" (TPQ'S) EXIST FOR THE FOLLOWING INGREDIENTS: NONE. SPILLS OR RELEASES RESULTING IN THE LOSS OF ANY INGREDIENT AT OR ABOVE ITS RQ REQUIRES IMMEDIATE NOTIFICATION TO THE NATIONAL RESPONSE CENTER (800-424-8802) AND TO YOUR LOCAL EMERGENCY PLANNING COMMITTEE. SECTION 311 HAZARD CLASS: IMMEDIATE (PRESSURE). SARA 313 TOXIC CHE MICALS: THE FOLLOWING INRESIENTS ARE SARA 311 "TOXIC CHEMICALS": NONE. Federal Regulatory Information:TSCA INVENTORY STATUS: EXEMPT: ACCUMULATOR IS AN ARTICLE. NITROGEN GAS IS ON THE TSCA INVENTORY. OTHER TSCA ISSUES: NONE. State Regulatory Information:NONE LISTED.

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