

TROJAN -- BTTN
MATERIAL SAFETY DATA SHEET
TROJANNSN: 685000N069409
Manufacturer's CAGE: 7N705
Part No. Indicator: A
Part Number/Trade Name: BTTN

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General Information
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Company's Name: TROJAN CORP
Company's P. O. Box: 310
Company's City: SPANISH FORK
Company's State: UT
Company's Country: US
Company's Zip Code: 84660
Company's Emerg Ph #: 801-798-8613
Company's Info Ph #: 801-798-8613
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SMJ
Date MSDS Prepared: 08AUG89
Safety Data Review Date: 03APR96
MSDS Serial Number: BZQND

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: 2 NITRODIPHENYLAMINE
Ingredient Sequence Number: 01
Percent: 0.25-1
NIOSH (RTECS) Number: 1001759NA
OSHA PEL: N/K (FP N)
ACGIH TLV: N/K (FP N)

Proprietary: NO
Ingredient: CARBANILIDE, N,N'-DIETHYL-; (ETHYLCENTRALITE)
Ingredient Sequence Number: 02
Percent: 0.025
NIOSH (RTECS) Number: FE0350000
CAS Number: 85-98-3
OSHA PEL: N/K (FP N)
ACGIH TLV: N/K (FP N)

Proprietary: NO
Ingredient: 1,2,4-BUTANETRIOL TRINITRATE (BTTN) (CONTAINING INGS 4 & 5)
Ingredient Sequence Number: 03
Percent: 80
NIOSH (RTECS) Number: EK7181000
CAS Number: 6659-60-5
OSHA PEL: N/K (FP N)
ACGIH TLV: N/K (FP N)

Proprietary: NO
Ingredient: METHANE, DICHLORO-; (METHYLENE CHLORIDE) (SARA 313) (CERCLA)
Ingredient Sequence Number: 04
Percent: 20
NIOSH (RTECS) Number: PA8050000
CAS Number: 75-09-2
OSHA PEL: 500 PPM
ACGIH TLV: 50 PPM

Proprietary: NO
Ingredient: ACETONE (SARA 313) (CERCLA)
Ingredient Sequence Number: 05
Percent: 20

NIOSH (RTECS) Number: AL3150000
CAS Number: 67-64-1
OSHA PEL: 1000 PPM
ACGIH TLV: 750 PPM;1000 STEL

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Physical/Chemical Characteristics
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Appearance And Odor: TRANSPARENT OILY LIQUID, COLORLESS TO LIGHT BROWN;
ODORLESS.

Boiling Point: N/A
Vapor Pressure (MM Hg/70 F): 1.1 @ 20C
Vapor Density (Air=1): N/A
Specific Gravity: 1.52 (H*20=1)
Evaporation Rate And Ref: 1.9 X 10-5
Solubility In Water: <0.2%
Percent Volatiles By Volume: N/A

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Fire and Explosion Hazard Data
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Flash Point: >80F,>27C
Flash Point Method: TCC
Lower Explosive Limit: N/A
Upper Explosive Limit: N/A
Extinguishing Media: WATER; CONFINEMENT OF BTTN COULD RESULT IN
DETONATION.
Special Fire Fighting Proc: USE NIOSH/MSHA APPROVED PRESSURE DEMAND SCBA &
FULL PROTECTIVE EQUIPMENT (FP N). EXPLOSION HAZARD EXISTS; FIREMENT SHOULD
NOT APPROACH CLOSER THAN 1200 FT.
Unusual Fire And Expl Hazrds: THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE
HCL & PHOSGENE (FP N). BTTN CAN BE INITIATED BY IMPACT, FRICTION &
ELECTROSTATIC DISCHARGE.

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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): EXTENDED STORAGE AT TEMPERATURES >120F.
Materials To Avoid: STRONG ACIDS, ALKALIES.
Hazardous Decomp Products: HCL, PHOSGENE (FP N). TOXIC FUMES OF NITROGEN
OXIDES & CO.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT

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Health Hazard Data
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LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: TOXIC IF INGESTED. CHLOROCARBON MATERIALS
HAVE PRODUCED SENSITIZATION OF MYOCARDIUM TO EPINEPHRINE IN LAB ANIMALS &
COULD HAVE SIMILAR EFFECT IN HUMANS. ADRENOMIMETICS (E.G., EPINEPHRINE) MAY
BE CONTRAINDICATED EXCEPT FOR LIFE-SUSTAINING USES IN HUMANS ACUTELY OR
CHRONICALLY EXPOSED TO CHLOROCARBONS (FP N).
Carcinogenicity - NTP: YES
Carcinogenicity - IARC: YES
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: METHYLENE CHLORIDE:IARC MONOGRAPHS, SUPP, VOL
7, PG 194, 1987:GRP 2B. NTP 7TH ANNUAL RPT ON CARCINS, 1994:ANTIC (SUPDAT)
Signs/Symptoms Of Overexp: SEE HEALTH HAZARDS.
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: INGEST:CALL MD IMMEDIATELY (FP N). INHAL: REMOVE
IMMEDIATELY FLUSH W/POTABLE WATER FOR A MINIMUM OF 15 MINUTES, SEEK
ASSISTANCE FROM MD (FP N). SKIN:FLUSH W/COPIOUS AMOUNTS OF WATER. CALL MD
(FP N).

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Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: CONTAIN ALL SPILLS BY ABSORBING THE LIQUID INTO SAWDUST. BTTN REMAINING ON SURFACES SHOULD BE DECOMPOSED W/SOLUTION OF SODIUM SULFIDE IN METHANOL-ACETONE MIXTURE. NOTE:THIS RXN WILL GENERATE POIS H*2S GAS; GOOD VENT IS REQUIRED.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: DISPOSE OF MATERIAL I/A/W LOCAL, STATE & FEDERAL REGULATIONS.

Precautions-Handling/Storing: USE CAUTION - THE MATERIAL IS A CLASS A EXPLOSIVE.

Other Precautions: NO SMOKING IN AREA OF USE. DO NOT USE IN GENERAL VICINITY OF ARC WELDING, OPEN FLAMES OR HOT SURFACES. HEAT &/OR UV RADIATION MAY CAUSE THE FORMATION OF HCL &/OR PHOSGENE (FP N).

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Control Measures

Respiratory Protection: NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS SHOULD BE WORN BECAUSE OF THE METHYLENE CHLORIDE/ACETONE DILUENT.

Ventilation: LOCAL EXHAUST:GOOD VENTILATION IS REQUIRED.

Protective Gloves: ACID RESISTANT GLOVES.

Eye Protection: ANSI APPROVED CHEM WORKERS GOGGS(SUPDAT)

Other Protective Equipment: EYE WASH FOUNTAIN & DELUGE SHOWER WHICH MEET ANSI DESIGN CRITERIA (FP N). COVERALLS WHICH WILL PROT AGAINST SPLASHES.

Work Hygienic Practices: COVERALLS SHOULD BE WASHED WHEN CONTAMINATED.

Suppl. Safety & Health Data: EXPLAN OF CARCIN:TO BE CARCIN. ANIMAL:LUNG, LIVER, SALIVARY, MAMMARY GLAND (TUMORS). EYE PROT:& FULL LENGTH FACESHIELD (FP N).

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Transportation Data

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Disposal Data

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Label Data

Label Required: YES

Technical Review Date: 03APR96

Label Date: 21FEB96

Label Status: G

Common Name: BTTN

Chronic Hazard: YES

Signal Word: DANGER!

Acute Health Hazard-Severe: X

Contact Hazard-None: X

Fire Hazard-Severe: X

Reactivity Hazard-Moderate: X

Special Hazard Precautions: FLAMMABLE. EXPLOSIVE. DECOMPOSITION PRODUCTS MAY BE HAZARDOUS. ACUTE:INHALATION OF VAPORS MAY CONTRIBUTE TO THE

OCCURRENCE OF IRREGULAR HEARTBEAT (FP N). TOXIC IF INGESTED. CHRONIC:CANCER HAZARD. CONTAINS METHYLENE CHLORIDE WHICH IS LISTED AS AN ANIMAL LUNG & LIVER CARCINOGEN (FP N).

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

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Label Zip Code: 84660

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