

THE JOHN GIRVAN
COMPANY, INC.

PROTEAM PRODUCTS
MATERIAL SAFETY DATA SHEET

11730 PHILLIPS HIGHWAY, JACKSONVILLE, FL 32256

EFFECTIVE DATE: 11/01/93

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SECTION I

MANUFACTURER'S NAME

THE JOHN GIRVAN CO INC

EMERGENCY TELEPHONE NO

904-260-4505

CHEMTREC - 1-800-424-9300

TRADE NAME AND SYNONYMS

PROTEAM MUSTARD AND BLACK MAGIC

U.S. PATENT NO. 4594091

CHEMICAL NAME AND SYNONYMS

BROMIDE SALT OF SODIUM - NATRIUM BROMIDE

CHEMICAL FAMILY

ALKALI METAL HALIDE

FORMULA

NABR

SECTION II - HAZARDOUS INGREDIENTS

COMPONENT

SODIUM BROMIDE
SODIUM TETRABORATE
BORIC ACID

HAZARD DATA

SECTION III - PHYSICAL DATA

BOILING POINT

2534 F

SPECIFIC GRAVITY (H₂O-1)

3.21

VAPOR PRESSURE (mm Hg)

1 mm Hg AT 806 C

VAPOR DENSITY (AIR-1)

N/A

SOLUBILITY IN WATER

95g/100g @ 25 C

APPEARANCE AND ODOR

WHITE ODORLESS CRYSTALLINE SOLID; HYDROSCOPIC BUT NOT DELIQUESCENT

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)

NONE

FLAMMABLE LIMITS

WILL NOT SUPPORT COMBUSTION

EXTINGUISHING MEDIA

USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING CONDITIONS

SPECIAL FIRE FIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE - COOL CONTAINER WITH WATER

UNUSUAL FIRE AND EXPLOSION HAZARDS

FROM Ca 1472 F WILL DECOMPOSE RELEASING BROMIDE FUMES

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

NOT ESTABLISHED FOR MIXTURE

TOXICITY

LD₅₀ (ORAL RATS) - 4200mg/kg LD₅₀ (DERMAL RABBITS) - 2000mg/kg

SECTION V - HEALTH HAZARD DATA (cont.)

EFFECTS OF OVER EXPOSURE

EYE IRRITATION - SKIN NON-IRRITANT TO INTACT SKIN -- INGESTION- DEPRESSION, SEDATION, & CONFUSION PORLONGED EXPOSURE CAN CAUSE AN ACNE LIKE RASH

EMERGENCY AND FIRST AID PROCEDURES

EYES: FLUSH WITH WATER FOR 15 MINUTES HOLDING LIDS OPEN- SEEK MEDICAL ATTENTION
SKIN: WASH WITH SOAP & WATER FOR 15 MINUTES WASH CONTAMINATED CLOTHES
INGESTION: DRINK 2 GLASSESS OF WATER AND INDUCE VOMITING-SEEK MEDICAL ATTENTION
INHALATUIN: REMOVE TO FRESH AIR - SEEK MEDICAL ATTENTION

SECTION VI - REACTIVITY DATA

STABILITY

STABLE

CONDITIONS TO AVOID

INCOMPATIBILITY

WILL REACT VIOLENTLY WITH BROMINE TRIFLORIDE

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR

CONDITIONS TO AVOID

HEATING OVER 800 C

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

SHOVEL INTO INTACT PACKAGING FOR POSSIBLE RE-USE OR DILUTE WITH LARGE AMOUNTS OF WATER AND DRAIN TO SEWER USE DUST RESPIRATOR, RUBBER GLOVES, AND PROTECTIVE GOGGLES

WASTE DISPOSAL METHOD

PUT INTO A LARGE VESSEL CONTAINING WATER AND DRAIN INTO SEWER WITH AMPLE WATER

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

USE IF MISTING OCCURS

VENTILATION

LOCAL EXHAUST

USE TO MINIMIZE DUST BELOW 10mg/m

SPECIAL

8 HOURS TWA

MECHANICAL

USE FOR GENERAL AREA CONTROL

OTHER

DUST RESPIRATOR

PROTECTIVE GLOVES

RUBBER GLOVES

EYE PROTECTION

CHEMICAL SAFTEY GOGGLES

OTHER PROTECTIVE EQUIPMENT

LONG SLEEVED CLOTHING AND BOOTS

SECTION IX-SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

KEEP CONTAINERS TIGHTLY CLOSED. STORE IN A COOL DRY PLACE, AWAY FROM BrF₃ ACIDS AND ALKALOIDAL AND HEAVY METAL SALTS

OTHER PRECAUTIONS

SAFETY SHOWER AND EYE BATH SHOULD BE PROVIDED DO NOT EAT OR DRINK UNTIL AFTER ABLUTION

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