

BALL POWDER PROPELLANT,P/N 10542743-2

MSDS Number

BPZTM

National Stock Number

1376-01-055-2772

Product Name

BALL POWDER PROPELLANT,P/N 10542743-2

Manufacturer

OLIN CORP

Product Identification

Product ID:BALL POWDER PROPELLANT,P/N 10542743-2

MSDS Date:04/10/1992

FSC:1376

NIIN:01-055-2772

MSDS Number: BPZTM

Responsible Party

OLIN CORPORATION

120 LONG RIDGE ROAD

STAMFORD , CT 06904-1355

US

Emergency Phone: 800-OLIN-911(800-654-6911)

Info Phone: 203-356-2000

Cage: 99530

Contractor

OLIN CORPORATION

4500

NORWALK, CT 06856-4500

US

203-750-3000/800-511-MSDS

Cage: 99530

Ingredients

NITROGLYCERIN (NG) (SARA III)

CAS: 55-63-0

RTECS: QX2100000

Fraction By Weight: 0-40%

OSHA PELS,C, 0.2 MG/M3 STEL

ACGIH TLV: S, 0.46 MG/M3; 9293

EPA Report Quantity: 10 LBS

DOT Report Quantity: 10 LBS

DIBUTYL PHTHALATE (SARA III)

CAS: 84-74-2

RTECS: TI0875000

Fraction By Weight: 0-10%
OSHA PEL5 MG/M3
ACGIH TLV: 5 MG/M3
EPA Report Quantity: 10 LBS
DOT Report Quantity: 10 LBS

POLYESTER ADIPATE
Fraction By Weight: 0-10%

ETHYL CENTRALITE
CAS: 85-98-3
RTECS: FE0350000
Fraction By Weight: 0-10%
OSHA PELNOT KNOWN
ACGIH TLV: NOT KNOWN

ROSIN ACID
CAS: 8050-09-7
Fraction By Weight: 0-2%

ETHYL ACETATE (SARA III)
CAS: 141-78-6
RTECS: AH5425000
Fraction By Weight: 0-1.5%
OSHA PEL400 PPM
ACGIH TLV: 400 PPM
EPA Report Quantity: 5000 LBS
DOT Report Quantity: 5000 LBS

DIPHENYLAMINE
CAS: 122-39-4
RTECS: JJ7800000
Fraction By Weight: 0-1.5%
OSHA PEL10 MG/M3
ACGIH TLV: 10 MG/M3

N-NITROSODIPHENYLAMINE (SARA III)
CAS: 86-30-6
RTECS: JJ9800000
Fraction By Weight: 0-1.5%
EPA Report Quantity: 100 LBS

DOT Report Quantity: 100 LBS

POTASSIUM NITRATE

CAS: 7757-79-1

RTECS: TT3700000

Fraction By Weight: 0-1.5%

POTASSIUM SULFATE

CAS: 7778-80-5

RTECS: TT5900000

Fraction By Weight: 0-1.5%

TIN DIOXIDE.TIN(IV) OXIDE.

CAS: 18282-10-5

RTECS: XQ4000000

Fraction By Weight: 0-1.5%

OSHA PEL2 MG(SN)/M3

ACGIH TLV: 2 MG(SN)/M3

2-NITRODIPHENYLAMINE

CAS: 119-75-5

Fraction By Weight: 0-1.3%

GRAPHITE,NATURAL

CAS: 7782-42-5

RTECS: MD9659600

Fraction By Weight: 0-1%

OSHA PEL15 MPPCF RDUST

ACGIH TLV: 2 MG/M3 RDUST; 9293

CALCIUM CARBONATE.OSHA PEL 5 MG/M3 RESP FRACTION.ACGIH FOR

CAS: 1317-65-3

RTECS: EV9580000

Fraction By Weight: 0-1%

OSHA PEL15 MG/M3 TOTAL DUST

ACGIH TLV: 10 MG/M3 TOTAL DUST

REMAINDER TO 100%.

CAS: 9004-70-0

RTECS: QW0970000

Hazards

LD50 LC50 Mixture:NOT KNOWN
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:DIPHENYLAMINE MAY CAUSE KIDNEY DAMAGE.THE LOW CONCENTRATION OF THIS MATERIAL IN,AND NATURE OF,THE PRODUCT WOULD PRECLUDE DEVELOPMENT OF SUCH AN EFFECT.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:EYES:IRRITATION WITH INFLAMMATION OF CONJUNCTIVA.SKIN:IRRITATION.INGESTION:IRRITATION TO GI TRACT.INHALATION:IRRITATION TO NOSE,MOUTH,THROAT,LUNGS.NITROGLYCERIN MAY CAUSE DILATION OF BLOOD VESSELS W/ DROP IN BLOOD PRESSURE,HEADACHE,CYCNOSIS,MENTAL CONFUSION.NAUSEA,VOMITING & ABDOMINAL PAIN MAY ALSO OCCUR.
Medical Cond Aggravated by Exposure:ANEMIA AND CARDIOVASCULAR DISEASE.

First Aid

First Aid:EYES:IMMED FLUSH W/ LGE AMTS OF WATER FOR AT LEAST 15 MIN.IF IRRIT DEVELOPS,CALL MD. SKIN:IMMED FLUSH W/ WATER FOR 15 MIN.CALL MD. INGESTION:IMMED DRINK LGE QTIES OF WATER.INDUCE VOMITING.CALL MD.DO N OT GIVE ANYTHING BY MOUTH IF UNCON OR IF HAVING CONVL.
INHALATION:REMOVE TO FRESH AIR.IF BREATHING IS DIFFICULT,ADMIN O*2,KEEP PATIENT WARM & AT REST.CALL MD.IF UNCON,ARTF RESP SHOULD BE GIVEN IMMED.

Fire Fighting

Extinguishing Media:USE EXTINGUISHING MEDIA COMPATIBLE FOR SURROUNDING PRODUCTS.IF MATERIAL ITSELF IS ON FIRE,DELUGE WITH WATER.
Fire Fighting Procedures:IN CASE OF FIRE,USE NORMAL FIRE FIGHTING EQUIP.RESPONSE TO MATL REQUIRES USE OF SELF-CONTAINED BREATHING APPARATUS.FIGHT FIRES FROM REMOTE LOCATION (SEE SUPP)
Unusual Fire/Explosion Hazard:CAN IGNITE DUE TO IMPACT OR STATIC DISCHARGE.

Accidental Release

Spill Release Procedures:PROD MAY REPRESENT EXPLO HAZ.REMOVE SOURCES OF IGNIT.STOP SPILL & NOTIFY APPROP PERS.WET SPILL MATL PRIOR TO CLEAN UP.USE NON-SPARKING/PLASTIC UTENSILS.WEAR FLAME RETARDANT CLOTHING & SELF-CONTAINED B REATHING APPRATUS.WATER RELEASE:CREATE (SEE SUPP)
Neutralizing Agent:NOT KNOWN

Handling

Handling and Storage Precautions:STORE IN A COOL,DRY,WELL-VENTILATED PLACE AWAY FROM ALL SOURCES OF IGNIT.DO NOT STORE AT TEMP >38C,SUBJECT TO MECH SHOCK,EXPOSE TO DIRECT LIGHT.
Other Precautions:STORE IN ORIGINAL SHIPPING CONTAINERS FOR EXPLOSION VENTING PURPOSES.CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL.DO NOT TAKE INTERNALLY.AVOID CONTACT WITH S KIN,EYES,AND CLOTHING. (SEE SUPP DATA)

Exposure Controls

Respiratory Protection:RESPIRATORY PROTECTION NOT NORMALLY NEEDED.IF SIGNIFICANT DUSTING OCCURS,WEAR A NIOSH/MSHA APPROVED DUST RESPIRATOR WITH HIGH EFFICIENCY FILTERS.
Ventilation:LOCAL EXHAUST VENTILATION IS RECOMMENDED IF SIGNIFICANT DUSTING OCCURS.OTHERWISE,USE GENERAL EXHAUST VENTILATION.
Protective Gloves:IMPERMEABLE GLOVES
Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS.
Other Protective Equipment:IMPERVIOUS BOOT,APRON,PROTECTIVE SUIT AND HARD HAT.
Work Hygienic Practices:UPON CONTACT WITH SKIN OR EYES,WASH OFF WITH WATER.REMOVE CONTAMINATED CLOTHING IMMED & LAUNDER BEFORE REUSE.
Supplemental Safety and Health
CONTRACT DAAA09-91-C-0494.BULK DENSITY:0.5-1 G/CC.FIRE FIGHT PROC:OR EXPLOSIVE RESISTANT BUNKER.SPILL PROC:OVERFLOW DAM W/ FILTRATION CAPABILITIES TO RETAIN MATL.DIVERT WATER FLOW OR STOP IF POSSIBLE.

GATHER WET MATL.KEEP MATL DAMP.OTHER PREC:SHELF LIFE INDEFINITE
WHEN KEPT UNDER 100F.

Chemical Properties

Melt/Freeze Pt:M.P/F.P Text:NOT KNOWN
Decomp Temp:Decomp Text:>122F,>50C
Vapor Pres:Spec Gravity:1.2-1.6
Evaporation Rate & Reference:NEGLIGIBLE
Solubility in Water:NEGLIGIBLE
Appearance and Odor:ODORLESS,GRANULAR SOLID.
Percent Volatiles by Volume:

Stability

Stability Indicator/Materials to Avoid:YES
STRONG ACIDS,BASES,AMINES,OXIDIZERS.
Stability Condition to Avoid:TEMP ABOVE 120C,IMPACT,STATIC
DISCHARGE,DIRECT SUNLIGHT,OPEN FLAME.
Hazardous Decomposition Products:CARBON MONOXIDE,CARBON DIOXIDE,OXIDES
OF NITROGEN.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

Disposal

Waste Disposal Methods:DISP MUST BE IAW FED,STATE,& LOC REGS.COORDINATE
W/ SUPPORTING INSTALLATION/MACOM ENVIRON OFFICE PRIOR TO DISP .HAZ
WASTE NO.D003.CAN BE DISP BY CONTROLLED OPEN BURNING IN SMALL
QTIES.SPREAD MAT L IN THIN LAYERS & IGNITE FROM REMOTE LOCATION.

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