

DOD Hazardous Materials Information System
DoD 6050.5-L
AS OF July 1998

FSC: 6810
NIIN: 00D004283
Manufacturer's CAGE: 63759
Part No. Indicator: A
Part Number/Trade Name: NAPHTHALENE,FLAKE

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General Information

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Item Name: NAPHTHALENE,TECHNICAL
Company's Name: WARDS NATURAL SCIENCE ESTABLISHMENT INC
Company's Street: 5100 W HENRIETTA RD
Company's P. O. Box: 92912
Company's City: ROCHESTER
Company's State: NY
Company's Country: US
Company's Zip Code: 14692
Company's Emerg Ph #: 716-226-5177/800-424-9300(CHEMTREC)
Company's Info Ph #: 716-359-2502/716-334-4222 (NIGHT)
Distributor/Vendor # 1:
Distributor/Vendor # 1 Cage:
Distributor/Vendor # 2:
Distributor/Vendor # 2 Cage:
Distributor/Vendor # 3:
Distributor/Vendor # 3 Cage:
Distributor/Vendor # 4:
Distributor/Vendor # 4 Cage:
Safety Data Action Code:
Safety Focal Point: D
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SE
Date MSDS Prepared: 03NOV93
Safety Data Review Date: 21MAR96
Supply Item Manager: CX
MSDS Preparer's Name: ALEXANDER A. PICCIRILLI
Preparer's Company:
Preparer's St Or P. O. Box:
Preparer's City:
Preparer's State:
Preparer's Zip Code:
Other MSDS Number:
MSDS Serial Number: BYGDL
Specification Number: UNKNOWN
Spec Type, Grade, Class: UNKNOWN
Hazard Characteristic Code: F7
Unit Of Issue:
Unit Of Issue Container Qty: 500 G (MSDS)
Type Of Container: UNKNOWN
Net Unit Weight: 1.1 LBS

Report for NIIN: 00D004283

NRC/State License Number: NOT RELEVANT
Net Explosive Weight: N/R
Net Propellant Weight-Ammo: N/R
Coast Guard Ammunition Code: N/R

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Ingredients/Identity Information

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 Proprietary: NO
 Ingredient: NAPHTHALENE (SARA 313) (CERCLA)
 Ingredient Sequence Number: 01
 Percent: 100
 Ingredient Action Code:
 Ingredient Focal Point: D
 NIOSH (RTECS) Number: QJ0525000
 CAS Number: 91-20-3
 OSHA PEL: 10 PPM
 ACGIH TLV: 10 PPM/15 STEL; 9495
 Other Recommended Limit: NONE RECOMMENDED
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Physical/Chemical Characteristics

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 Appearance And Odor: WHITE CRYSTALLINE, VOLATILE FLAKES - AROMATIC
 MOTHBALL ODOR
 Boiling Point: 422F SUBLIM
 Melting Point: 176F,80C
 Vapor Pressure (MM Hg/70 F): 1 @ 127F
 Vapor Density (Air=1): 4.42
 Specific Gravity: 1.145
 Decomposition Temperature: UNKNOWN
 Evaporation Rate And Ref: NOT RELEVANT
 Solubility In Water: INSOLUBLE
 Percent Volatiles By Volume: 100
 Viscosity: NOT RELEVANT
 pH: N/R
 Radioactivity: NOT RELEVANT
 Form (Radioactive Matl):
 Magnetism (Milligauss): N/P
 Corrosion Rate (IPY): UNKNOWN
 Autoignition Temperature: 979F
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Fire and Explosion Hazard Data

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 Flash Point: 174F,79C
 Flash Point Method: TCC
 Lower Explosive Limit: 0.9%
 Upper Explosive Limit: 5.9%
 Extinguishing Media: WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL (ABC). USE
 WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.
 Special Fire Fighting Proc: WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED
 SELF-CONTAINED BREATHING APPARATUS. SEE 1990 EMERGENCY RESPONSE GUIDEBOOK,
 GUIDE NO 32. FOAM/WATER MAY CAUSE FOAMING
 Unusual Fire And Expl Hazrds: POWDERED MATERIAL CAN FORM EXPLOSIVE DUST-
 AIR MIXTURES.
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Report for NIIN: 00D004283

Reactivity Data

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 Stability: YES
 Cond To Avoid (Stability): EXCESSIVE HEAT, FLAME, SPARK
 Materials To Avoid: STRONG OXIDIZING AGENTS
 Hazardous Decomp Products: CARBON MONOXIDE, CARBON DIOXIDE AND OTHER
 UNIDENTIFIED ORGANICS MAY BE FORMED.
 Hazardous Poly Occur: NO
 Conditions To Avoid (Poly): NOT RELEVANT
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Health Hazard Data

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LD50-LC50 Mixture: TLV IS 10 PPM.
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: TARGET ORGANS:EYE, SKIN, RESPIRATORY & GI
TRACTS. ACUTE- INHALE:CONCENTRATIONS >10 PPM MAY CAUSE HEADACHE, VOMITING &
SWEATING. EYES:MAY CAUSE IRRITATION, CORNEAL INJURY. SKIN:PROLONGED/
REPEATED CONTACT MAY CAUSE IRRITATION. ORAL:POISONING MAY OCCUR BY
INGESTION OF LARGE DOSES/INHALATION/SKIN ABSORPTION. CHRONIC- UNK.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE
Signs/Symptoms Of Overexp: IRRITATION, WEAKNESS, FATIGUE, HEADACHE,
ABDOMINAL PAIN, SALIVATION, NAUSEA, VOMITING, DIARRHEA, SWEATING, BLURRED
VISION
Med Cond Aggravated By Exp: UNKNOWN
Emergency/First Aid Proc: CALL A DOCTOR IF SYMPTOMS PERSIST. EYE:FLUSH
WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SEE PHYSICIAN. SKIN:FLUSH
WITH WATER, THEN WASH WITH SOAP & WATER. INHALED:REMOVE TO FRESH AIR.
PROVIDE CPR/OXYGEN IF NEEDED. ORAL:IF CONSCIOUS, DRINK WATER & INDUCE
VOMITING. CALL A PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE
FLUID OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.
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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: WEAR SUITABLE PROTECTIVE CLOTHING. AVOID
MAKING DUST. SWEEP UP AND PLACE IN A SUITABLE CONTAINER FOR LATER DISPOSAL.
WASH SPILL SITE WELL WITH SOAP AND WATER AFTER PICK UP IS COMPLETE.
Neutralizing Agent: NOT RELEVANT
Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND
FEDERAL REGULATIONS. MAKE UP INTO SMALL PACKAGES WITH PAPER OR OTHER
FLAMMABLE MATERIAL FOR INCINERATION.
Precautions-Handling/Storing: STORE IN A COOL, DRY, VENTILATED PLACE AWAY
FROM OXIDIZING MATERIALS OR FIRE HAZARDS. KEEP CONTAINER TIGHTLY CLOSED.
Other Precautions: AVOID CREATING DUST. DO NOT GET IN EYES, ON SKIN OR ON
CLOTHING. AVOID INHALATION OF DUST OR FUME. KEEP OUT OF REACH OF CHILDREN.
OBEY HAZARD WARNING LABEL. FOR LABORATORY USE ONLY. NOT FOR DRUG, FOOD OR
HOUSEHOLD USE.
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Report for NIIN: 00D004283

Control Measures

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Respiratory Protection: NONE SHOULD BE NEEDED IN NORMAL LABORATORY
HANDLING. IF DUSTY CONDITIONS PREVAIL, WORK IN A FUME HOOD OR WEAR A NIOSH-
APPROVED DUST RESPIRATOR OR DUST MASK. IN EMERGENCY, WEAR NIOSH-APPROVED
SELF-CONTAINED BREATHING APPARATUS.
Ventilation: USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV
REQUIREMENTS.
Protective Gloves: RUBBER, LATEX
Eye Protection: SAFETY GOGGLES/CHEMICAL SAFETY GLASSES
Other Protective Equipment: EYE WASH STATION, SAFETY SHOWER, PROTECTIVE
CLOTHING AND/OR UNIFORM
Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES.
Suppl. Safety & Health Data:
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Transportation Data

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Transportation Action Code:
Transportation Focal Point: D
Trans Data Review Date: 96081
DOT PSN Code: JZV
DOT Symbol:
DOT Proper Shipping Name: NAPHTHALENE, CRUDE OR NAPHTHALENE, REFINED
DOT Class: 4.1
DOT ID Number: UN1334
DOT Pack Group: III
DOT Label: FLAMMABLE SOLID
DOT/DoD Exemption Number: NOT RELEVANT
IMO PSN Code: KIT
IMO Proper Shipping Name: NAPHTHALENE,CRUDE OR REFINED
IMO Regulations Page Number: 4158
IMO UN Number: 1334
IMO UN Class: 4.1
IMO Subsidiary Risk Label: -
IATA PSN Code: ROD
IATA UN ID Number: 1334
IATA Proper Shipping Name: NAPHTHALENE, CRUDE
IATA UN Class: 4.1
IATA Subsidiary Risk Class:
IATA Label: FLAMMABLE SOLID
AFI PSN Code: ROD
AFI Symbols:
AFI Prop. Shipping Name: NAPHTHALENE, CRUDE OR REFINED
AFI Class: 4.1
AFI ID Number: UN1334
AFI Pack Group: III
AFI Label:
AFI Special Prov: A1
AFI Basic Pac Ref: A8.4
MMAC Code:
N.O.S. Shipping Name:

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Report for NIIN: 00D004283

Additional Trans Data: IMO PROPER SHIPPING NAME OF CARRIAGE OF DANGEROUS GOODS IN LIMITED QUANTITIES MAY APPLY.

Disposal Data

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Disposal Data Action Code:
Disposal Data Focal Point:
Disposal Data Review Date:
Rec # For This Disp Entry:
Tot Disp Entries Per NSN:
Landfill Ban Item:
Disposal Supplemental Data:
1st EPA Haz Wst Code New:
1st EPA Haz Wst Name New:
1st EPA Haz Wst Char New:
1st EPA Acute Hazard New:
2nd EPA Haz Wst Code New:
2nd EPA Haz Wst Name New:
2nd EPA Haz Wst Char New:
2nd EPA Acute Hazard New:
3rd EPA Haz Wst Code New:
3rd EPA Haz Wst Name New:

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3rd EPA Haz Wst Char New:
3rd EPA Acute Hazard New:

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Label Data
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Label Required: YES
Technical Review Date: 21MAR96
Label Date:
MFR Label Number: UNKNOWN
Label Status: F
Common Name: NAPHTHALENE, FLAKE
Chronic Hazard: N/P
Signal Word: WARNING!
Acute Health Hazard-None:
Acute Health Hazard-Slight:
Acute Health Hazard-Moderate: X
Acute Health Hazard-Severe:
Contact Hazard-None:
Contact Hazard-Slight:
Contact Hazard-Moderate: X
Contact Hazard-Severe:
Fire Hazard-None:
Fire Hazard-Slight:
Fire Hazard-Moderate: X
Fire Hazard-Severe:
Reactivity Hazard-None: X
Reactivity Hazard-Slight:
Reactivity Hazard-Moderate:
Reactivity Hazard-Severe:
Special Hazard Precautions: TARGET ORGANS:EYE, SKIN, RESPIRATORY & GI TRACTS. ACUTE- INHALE:MAY CAUSE HEADACHE, VOMITING. EYES:MAY CAUSE

Report for NIIN: 00D004283

IRRITATION, CORNEAL INJURY. SKIN:PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. ORAL:POISONING MAY OCCUR BY INGESTION/INHALATION/SKIN ABSORPTION. CHRONIC- UNKNOWN. STORE IN COOL, DRY, VENTILATED PLACE AWAY FROM OXIDIZERS. SWEEP UP SPILL & PLACE IN A SUITABLE CONTAINER. FIRST AID- CALL A DOCTOR IF SYMPTOMS PERSIST. EYE:FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL:IF CONSCIOUS, DRINK WATER & INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY.

Protect Eye: Y
Protect Skin: Y
Protect Respiratory:
Label Name: WARDS NATURAL SCIENCE ESTABLISHMENT INC
Label Street: 5100 W HENRIETTA RD
Label P.O. Box: 92912
Label City: ROCHESTER
Label State: NY
Label Zip Code: 14692
Label Country: US
Label Emergency Number: 716-226-5177/800-424-9300(CHEMTREC)
Year Procured: 1996