

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

FSC: 6810  
NIIN: 00N034763  
Manufacturer's CAGE: 89975  
Part No. Indicator: A  
Part Number/Trade Name: CALCIUM INDICATOR LIQUID, R-0011L

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General Information  
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Item Name:  
Company's Name: TAYLOR TECHNOLOGIES INC  
Company's Street: 31 LOVETON CIRCLE  
Company's P. O. Box:  
Company's City: SPARKS  
Company's State: MD  
Company's Country: US  
Company's Zip Code: 21152  
Company's Emerg Ph #: 301-472-4340  
Company's Info Ph #: 301-472-4340  
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: N  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 002  
Status: SMJ  
Date MSDS Prepared: 01MAR89  
Safety Data Review Date: 28SEP92  
Supply Item Manager:  
MSDS Preparer's Name: STEPHEN M. BACON  
Preparer's Company: SAME  
Preparer's St Or P. O. Box:  
Preparer's City:  
Preparer's State:  
Preparer's Zip Code:  
Other MSDS Number:  
MSDS Serial Number: BPWLH  
Specification Number:  
Spec Type, Grade, Class:  
Hazard Characteristic Code: F3  
Unit Of Issue:  
Unit Of Issue Container Qty:  
Type Of Container:  
Net Unit Weight:

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NRC/State License Number:  
Net Explosive Weight:  
Net Propellant Weight-Ammo:  
Coast Guard Ammunition Code:

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Ingredients/Identity Information

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Proprietary: NO  
 Ingredient: ISOPROPYL ALCOHOL. LD50:(ORAL,RAT)5840 MG/KG  
 Ingredient Sequence Number: 01  
 Percent: 23.6  
 Ingredient Action Code:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: NT8050000  
 CAS Number: 67-63-0  
 OSHA PEL: 400 PPM;500 PPM STEL  
 ACGIH TLV: 400 PPM;500 PPM STEL  
 Other Recommended Limit: N/K

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Proprietary: NO  
 Ingredient: ETHANOL,2,2'2"-NITRILOTRI-; (TRIETHANOLAMINE). LD50:(ORAL,RAT)  
 8680 MG/KG  
 Ingredient Sequence Number: 02  
 Percent: 78.7  
 Ingredient Action Code:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: KL9275000  
 CAS Number: 102-71-6  
 OSHA PEL: NOT APPLICABLE  
 ACGIH TLV: NOT APPLICABLE  
 Other Recommended Limit: N/K

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Proprietary: NO  
 Ingredient: 1-NAPHATHALENESULFONIC ACID, 3-HYDROXY-4-(2-HYDROXY-1-NAPHTHYLAZO)-, SODIUM SALT; (ERIOCHROME BLUE BLACK R)  
 Ingredient Sequence Number: 03  
 Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: QK2200000  
 CAS Number: 2538-85-4  
 OSHA PEL: NOT APPLICABLE  
 ACGIH TLV: NOT APPLICABLE  
 Other Recommended Limit: N/K

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Physical/Chemical Characteristics

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Appearance And Odor: DARK BLUE VISCOUS LIQUID.  
 Boiling Point: >500F,>260C  
 Melting Point: N/K  
 Vapor Pressure (MM Hg/70 F): N/K  
 Vapor Density (Air=1): 2  
 Specific Gravity: 1.02

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Decomposition Temperature: N/K  
 Evaporation Rate And Ref: N/K  
 Solubility In Water: COMPLETE  
 Percent Volatiles By Volume: 99  
 Viscosity:  
 pH: 10.3  
 Radioactivity:  
 Form (Radioactive Matl):  
 Magnetism (Milligauss): N/P  
 Corrosion Rate (IPY): N/K  
 Autoignition Temperature:

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Fire and Explosion Hazard Data
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Flash Point: UNKNOWN
Flash Point Method: N/P
Lower Explosive Limit: 2%
Upper Explosive Limit: 12%
Extinguishing Media: WATER FOG, FOAM, CARBON DIOXIDE, DRY CHEMICAL.
Special Fire Fighting Proc: WEAR NIOSH/MSHA APPROVED SCBA AND FULL
PROTECTIVE EQUIPMENT (FP N). COOL EXPOSED CONTAINERS WITH WATER SPRAY. USE
WATER SPRAY TO KNOCK DOWN VAPORS.
Unusual Fire And Expl Hazrds: MODERATE EXPLOSION HAZARD. TOXIC NITROGEN
OXIDE & CARBON MONOXIDE FUMES GENERATED UNDER FIRE CONDITIONS.
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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.
Materials To Avoid: AVOID CONTACT WITH STRONG ACIDS & STRONG OXIDIZERS.
Hazardous Decomp Products: VAPRS ARE FLAMM & WHEN BURNED TO DECOMPOSITION,
OXIDES OF NITROGEN CAN BE GENERATED.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT
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Health Hazard Data
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LD50-LC50 Mixture: SEE INGREDIENTS
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: VAPORS IRRITATING TO EYES, SKIN, & MUCOUS
MEMBRANES & CAN CAUSE NARCOSIS. LIQUID IRRITATING TO EYES, SKIN, & OPEN
CUTS. CONTACT W/SKIN CAN CAUSE STAINING & DERMATITIS. IF TAKEN INTERNALLY,
CAN CAUSE GI IRRITATION & SERIOUS GASTRIC DISTURBANCE.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT
Signs/Symptoms Of Overexp: SEE HEALTH HAZARDS.
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: INHAL: REMOVE TO FRESH AIR. IF COMPLICATIONS
OCCUR, GIVE O*2 AS NEEDED & GET MED ATTN. SKIN: WASH THORO W/SOAP & WATER.
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IF IRRIT PERSISTS/RED/DERM DEVELOP, SEEK MED ATTN. EYES: FLUSH WELL WITH WATER FOR AT LEAST 15 MIN & GET MEDICAL ATTN. INGEST: CONTACT PHYS IMMED & GIVE LARGE AMOUNTS OF WATER. INDUCE VOMITING UNDER DIRECTION OF PHYSICIAN.

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Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: EXTING OPEN FLAMES. FOR SM SPILLS, FLUSH TO
SEWER/IF DESIRED, ABSORB W/VERMICULITE/OTHER INERT MATL, & CONTAINERIZE FOR
LATER DISP. FOR LG SPILLS, ABSORB W/VERMICULITE/OTHER INERT MATL, &
CONTAINERIZE FOR LATER DISP. LBL CONTR "FLAMM" (SUPP DATA)
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: SMALL SPILLS MAY BE DISPOSED OF BY FLUSHING TO
SEWER. DISPOSE OF CONTAINERIZED MATERIAL BY INCINERATION OR OTHER METHOD
APPROVED OF BY LOCAL, STATE, OR FEDERAL REGULATIONS.
Precautions-Handling/Storing: STORE & USE IN A WELL-VENTD AREA. AVOID TEMP
EXTREMES, FLAMES, SPARKS, VAP BUILD-UP. AVOID CONT W/INCOMPATIBLE
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CHEMICALS.

Other Precautions: AVOID UNNECESSARY CONTACT, BREATHING OF VAPORS, ETC.

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Control Measures

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Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).

Ventilation: NONE SPECIFIED BY MANUFACTURER.

Protective Gloves: GENERAL PURPOSE GLOVES.

Eye Protection: CHEMICAL WORKERS GOGGLES (FP N).

Other Protective Equipment: LAB COAT.

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Suppl. Safety & Health Data: SPILL PROC: & STORE IN A WELL-VENTILATED AREA.

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Transportation Data

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Transportation Action Code:

Transportation Focal Point: N

Trans Data Review Date: 93049

DOT PSN Code: HWY

DOT Symbol:

DOT Proper Shipping Name: ISOPROPANOL OR ISOPROPYL ALCOHOL

DOT Class: 3

DOT ID Number: UN1219

DOT Pack Group: II

DOT Label: FLAMMABLE LIQUID

DOT/DoD Exemption Number:

IMO PSN Code: ITA

IMO Proper Shipping Name: ISOPROPANOL

IMO Regulations Page Number: 3244

IMO UN Number: 1219

IMO UN Class: 3.2

IMO Subsidiary Risk Label: -

IATA PSN Code: ONH

IATA UN ID Number: 1219

IATA Proper Shipping Name: ISOPROPANOL

Report for NIIN: 00N034763

IATA UN Class: 3

IATA Subsidiary Risk Class:

IATA Label: FLAMMABLE LIQUID

AFI PSN Code: ONH

AFI Symbols:

AFI Prop. Shipping Name: ISOPROPANOL

AFI Class: 3

AFI ID Number: UN1219

AFI Pack Group: II

AFI Label:

AFI Special Prov:

AFI Basic Pac Ref: 7-7

MMAC Code:

N.O.S. Shipping Name:

Additional Trans Data:

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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:  
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: 17SEP92  
Label Date: 17SEP92  
MFR Label Number:  
Label Status: G  
Common Name: CALCIUM INDICATOR L LIQUID, R-0011L  
Chronic Hazard: NO  
Signal Word: WARNING!  
Acute Health Hazard-None:  
Acute Health Hazard-Slight:  
Acute Health Hazard-Moderate: X  
Acute Health Hazard-Severe:  
Contact Hazard-None:

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Contact Hazard-Slight:  
Contact Hazard-Moderate: X  
Contact Hazard-Severe:  
Fire Hazard-None: X  
Fire Hazard-Slight:  
Fire Hazard-Moderate:  
Fire Hazard-Severe:  
Reactivity Hazard-None: X  
Reactivity Hazard-Slight:  
Reactivity Hazard-Moderate:  
Reactivity Hazard-Severe:  
Special Hazard Precautions: STORE & USE IN A WELL-VENTILATED AREA. AVOID TEMPERATURE EXTREMES, FLAMES, SPARKS, VAPOR BUILD-UP. AVOID CONTACT W/ INCOMPATIBLE CHEMICALS. ACUTE: VAPORS IRRITATING TO EYES, SKIN, & MUCOUS MEMBRANES & CAN CAUSE NARCOSIS. LIQUID IRRITATING TO EYES, SKIN, AND OPEN CUTS. CONTACT W/SKIN CAN CAUSE STAINING & DERMATITIS. IF TAKEN INTERNALLY, CAN CAUSE GI IRRITATION AND SERIOUS GASTRIC DISTURBANCE. CHRONIC: NONE LISTED BY MANUFACTURER.  
Protect Eye: Y  
Protect Skin: Y  
Protect Respiratory: Y  
Label Name: TAYLOR TECHNOLOGIES INC  
Label Street: 31 LOVETON CIRCLE  
Label P.O. Box:  
Label City: SPARKS  
Label State: MD

Label Zip Code: 21152  
Label Country: US  
Label Emergency Number: 301-472-4340  
Year Procured: