

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

FSC: 6810  
NIIN: 00F014082  
Manufacturer's CAGE: 89975  
Part No. Indicator: B  
Part Number/Trade Name: R-0012 HARDNESS REAGENT

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General Information  
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Item Name: ORGANIC CHELANT SOLUTION  
Company's Name: TAYLOR TECHNOLOGIES INC  
Company's Street: 31 LOVETON CIRCLE  
Company's P. O. Box: N/K  
Company's City: SPARKS  
Company's State: MD  
Company's Country: US  
Company's Zip Code: 21152-9201  
Company's Emerg Ph #: 410-472-4340  
Company's Info Ph #: 410-472-4340  
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: F  
Record No. For Safety Entry: 002  
Tot Safety Entries This Stk#: 002  
Status: FE  
Date MSDS Prepared: 01JUN92  
Safety Data Review Date: 16MAY95  
Supply Item Manager:  
MSDS Preparer's Name:  
Preparer's Company: TAYLOR TECHNOLOGIES INC  
Preparer's St Or P. O. Box: 31 LOVETON CIRCLE  
Preparer's City: SPARKS  
Preparer's State: MD  
Preparer's Zip Code: 21152-9201  
Other MSDS Number:  
MSDS Serial Number: BXKKT  
Specification Number:  
Spec Type, Grade, Class:  
Hazard Characteristic Code:  
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: ACETIC ACID (ETHYLENEDIAMINETETRAACETIC ACID), EDTA  
 Ingredient Sequence Number: 01  
 Percent: <5  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: AH4025000  
 CAS Number: 60-00-4  
 OSHA PEL: N/K  
 ACGIH TLV: N/K  
 Other Recommended Limit: N/K

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Proprietary: NO  
 Ingredient: SODIUM HYDROXIDE, CAUSTIC SODA, LYE  
 Ingredient Sequence Number: 02  
 Percent: <1  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: WB4900000  
 CAS Number: 1310-73-2  
 OSHA PEL: 2 MG/CUM  
 ACGIH TLV: 2 MG/CUM CEILING  
 Other Recommended Limit: 2MG/M3 CEILING NIOSH

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Proprietary: NO  
 Ingredient: MAGNESIUM CHLORIDE  
 Ingredient Sequence Number: 03  
 Percent: <1  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: 0M2800000  
 CAS Number: 7786-30-3  
 OSHA PEL: N/K  
 ACGIH TLV: N/K  
 Other Recommended Limit: N/K

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Proprietary: NO  
 Ingredient: WATER  
 Ingredient Sequence Number: 04  
 Percent: <93  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: ZC0110000  
 CAS Number: 7732-18-5  
 OSHA PEL: N/K  
 ACGIH TLV: N/K

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Other Recommended Limit: N/K

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Physical/Chemical Characteristics

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Appearance And Odor: CLEAR, COLORLESS LIQUID W/NO ODOR  
 Boiling Point: 212F  
 Melting Point: N/K  
 Vapor Pressure (MM Hg/70 F): 17  
 Vapor Density (Air=1): 0.6  
 Specific Gravity: 1  
 Decomposition Temperature: N/K

Evaporation Rate And Ref: N/K  
Solubility In Water: COMPLETE  
Percent Volatiles By Volume: 99  
Viscosity:  
pH: 8.1  
Radioactivity:  
Form (Radioactive Matl):  
Magnetism (Milligauss):  
Corrosion Rate (IPY): N/K  
Autoignition Temperature:

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Fire and Explosion Hazard Data  
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Flash Point: N/R  
Flash Point Method: N/P  
Lower Explosive Limit: N/R  
Upper Explosive Limit: N/R  
Extinguishing Media: DRY CHEMICAL, CO2, WATER SPRAY/FOAM  
Special Fire Fighting Proc: WEAR SELF CONTAINED POSITIVE PRESSURE  
BREATHING APPARATUS & FULL PROTECTIVE CLOTHING.  
Unusual Fire And Expl Hazrds: MAY EMIT TOXIC FUMES.

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Reactivity Data  
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Stability: YES  
Cond To Avoid (Stability): EXTREME HEAT & TEMPERATURES, DIRECT SUNLIGHT  
Materials To Avoid: N/K  
Hazardous Decomp Products: NITROGEN OXIDES, SODIUM OXIDES  
Hazardous Poly Occur: NO  
Conditions To Avoid (Poly): N/K

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Health Hazard Data  
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LD50-LC50 Mixture: ORAL LD50(RAT): 2000 MG/KG (SEE SUPP)  
Route Of Entry - Inhalation: NO  
Route Of Entry - Skin: YES  
Route Of Entry - Ingestion: YES  
Health Haz Acute And Chronic: EYES/SKIN: IRRITANT. INGESTION: MAY CAUSE  
GASTROINTESTINAL IRRITATION.  
Carcinogenicity - NTP: NO  
Carcinogenicity - IARC: NO  
Carcinogenicity - OSHA: NO

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Explanation Carcinogenicity: NONE  
Signs/Symptoms Of Overexp: IRRITATION  
Med Cond Aggravated By Exp: EYE & SKIN CONDITIONS  
Emergency/First Aid Proc: EYES: IMMEDIATELY FLUSH W/WATER FOR 15 MINS.  
SKIN: WASH THOROUGHLY W/SOAP & WATER. INGESTION: GIVE LARGE AMOUNTS OF  
WATER. INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

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Precautions for Safe Handling and Use  
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Steps If Matl Released/Spill: ABSORB W/VERMICULITE/OTHER INERT MATERIAL.  
CONTAINERIZE FOR LATER DISPOSAL.  
Neutralizing Agent: N/K  
Waste Disposal Method: DISPOSE BY INCINERATION/OTHER METHOD IN ACCORDANCE  
W/LOCAL, STATE & FEDERAL REGULATION.  
Precautions-Handling/Storing: STORE IN COOL DRY AREA. AVOID DIRECT  
SUNLIGHT.

Other Precautions: AVOID CONTACT W/EYES, SKIN & CLOTHING. AVOID BREATHING CHEMICAL.

Control Measures

Respiratory Protection: N/K
Ventilation: N/K
Protective Gloves: GENERAL PURPOSE
Eye Protection: SAFETY GLASSEWS
Other Protective Equipment: LAB COAT
Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.
Suppl. Safety & Health Data: ORAL LD50 INFORMATION IS FOR ETHYLENEDIAMINETETRAACETIC ACID.

Transportation Data

Transportation Action Code:
Transportation Focal Point:
Trans Data Review Date:
DOT PSN Code:
DOT Symbol:
DOT Proper Shipping Name:
DOT Class:
DOT ID Number:
DOT Pack Group:
DOT Label:
DOT/DoD Exemption Number:
IMO PSN Code:
IMO Proper Shipping Name:
IMO Regulations Page Number:
IMO UN Number:
IMO UN Class:
IMO Subsidiary Risk Label:
IATA PSN Code:
IATA UN ID Number:
IATA Proper Shipping Name:
IATA UN Class:

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IATA Subsidiary Risk Class:
IATA Label:
AFI PSN Code:
AFI Symbols:
AFI Prop. Shipping Name:
AFI Class:
AFI ID Number:
AFI Pack Group:
AFI Label:
AFI Special Prov:
AFI Basic Pac Ref:
MMAC Code:
N.O.S. Shipping Name:
Additional Trans Data:

Disposal Data

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:  
 Label Date:  
 MFR Label Number:  
 Label Status: G  
 Common Name: R-0012 HARDNESS REAGENT  
 Chronic Hazard: N/P  
 Signal Word:  
 Acute Health Hazard-None:  
 Acute Health Hazard-Slight:  
 Acute Health Hazard-Moderate:  
 Acute Health Hazard-Severe:  
 Contact Hazard-None:  
 Contact Hazard-Slight:

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Contact Hazard-Moderate:  
 Contact Hazard-Severe:  
 Fire Hazard-None:  
 Fire Hazard-Slight:  
 Fire Hazard-Moderate:  
 Fire Hazard-Severe:  
 Reactivity Hazard-None:  
 Reactivity Hazard-Slight:  
 Reactivity Hazard-Moderate:  
 Reactivity Hazard-Severe:  
 Special Hazard Precautions: EYES/SKIN: IRRITANT. INGESTION: MAY CAUSE  
 GASTROINTESTINAL IRRITATION. IRRITATION  
 Protect Eye:  
 Protect Skin:  
 Protect Respiratory:  
 Label Name: TAYLOR TECHNOLOGIES INC  
 Label Street: 31 LOVETON CIRCLE  
 Label P.O. Box: N/K  
 Label City: SPARKS  
 Label State: MD  
 Label Zip Code: 21152-9201  
 Label Country: US  
 Label Emergency Number: 410-472-4340  
 Year Procured: