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MSDS Safety Information
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FSC: 8040

MSDS Date: 01/03/1998

MSDS Num: CJNVF

LIIN: 00N091742

Product ID: WEST SYSTEM 209 EXTRA SLOW HARDENER, 209

MFN: 01

Responsible Party

Cage: 7S147

Name: GOUGEON BROTHERS, INC

Address: 100 PATTERSON AVE

City: BAY CITY MI 48706

Info Phone Number: 517-684-7286

Emergency Phone Number: 313-745-5711

Resp. Party Other MSDS No.: 209-98A

Preparer's Name: T.J. ATKINSON

Chemtrec IND/Phone: (800)424-9300

Review Ind: Y

Published: Y
=====Contractor Summary
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Cage: 7S147

Name: GOUGEON BROTHERS, INC

Address: 100 PATTERSON AVE

City: BAY CITY MI 48706

Phone: 517-684-7286
=====Item Description Information
=====Ingredients
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Cas: 39423-51-3

Name: JEFFAMINE T 403; (POLYOXYPROPYLENETRIAMINE)

% low Wt: 25.

% high Wt: 50.

Other REC Limits: N/K (FP N)

OSHA PEL: N/K (FP N)

OSHA STEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

ACGIH STEL: N/K (FP N)

Cas: 2855-13-2

Name: ISOPHORONE DIAMINE; (ISOPHORONEDIAMINE)

% low Wt: 25.

% high Wt: 50.

Other REC Limits: N/K (FP N)

OSHA PEL: N/K (FP N)

OSHA STEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

ACGIH STEL: N/K (FP N)

Cas: 25265-17-2

Name: REACTION PRODUCTS OF ISOPHORONEDIAMINE WITH PHENOL/FORMALDEHYDE

< Wt: 25.

Other REC Limits: N/K (FP N)

OSHA PEL: N/K (FP N)
OSHA STEL: N/K (FP N)
ACGIH TLV: N/K (FP N)
ACGIH STEL: N/K (FP N)

Cas: 108-95-2
RTECS #: SJ3325000
Name: HYDROXYBENZENE (PHENOL)
< Wt: 6.
Other REC Limits: N/K (FP N)
OSHA PEL: 19 MG/M3;5 PPM
OSHA STEL: N/K (FP N)
ACGIH TLV: 19 MG/M3;5 PPM
ACGIH STEL: N/K (FP N)
EPA Rpt Qty: 1000 LBS
DOT Rpt Qty: 1000 LBS

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Health Hazards Data

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Route Of Entry Inds - Inhalation: YES
Skin: YES
Ingestion: YES
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO

Effects of Exposure: ACUTE: INHALATION: CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE CHEST PAIN & COUGHING. SKIN: MODERATELY CORROSIVE. PROLONGED CONTACT MAY CAUSE SKIN DAMAGE W/BURNS & BLISTERING. WIDE SPREAD CONTACT MAY RESULT IN MATERIAL BEING ABSORBED IN HARMFUL AMOUNTS. EYE: SEVERE IRRITANT. MAY CAUSE PERMANENT EYE DAMAGE. INGESTION: MODERATELY TOXIC. CAUSES BURNING OF THE MOUTH & THROAT. MAY CAUSE BLEEDING OF THE GASTROINTESTINAL TRACT. CHRONIC: INHALATION: PROLONGED/REPEATED EXPOSURE MAY CAUSE LUNG DAMAGE. SKIN: MAY CAUSE PERSISTENT IRRITATION/DERMATITIS. REPEATED CONTACT MAY CAUSE ALLERGIC REACTION/SENSITIZATION & POSSIBLE TISSUE DESTRUCTION.

Signs And Symptoms Of Overexposure: PERSISTENT IRRITATION, DERMATITIS, BURNS OR BLISTERING. SKIN SENSITIZATION. HEADACHE AND NAUSEA. REDNESS AND SWELLING OF THE EYE.

Medical Cond Aggravated By Exposure: EXISTING SKIN AND RESPIRATORY CONDITIONS (ALLERGIES, DERMATITIS, ASTHMA, BRONCHITIS).

First Aid: EYES: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. IMMEDIATELY WASH SKIN WITH SOAP AND WATER. DO NOT APPLY GREASES OR OINTMENTS. INHALATION: IF SYMPTOMS OCCUR AS NOTED IN HEALTH HAZARDS SECTION, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST OR WORSEN. INGESTION: GIVE CONSCIOUS PERSON AT LEAST 2 GLASSES OF WATER. DO NOT INDUCE VOMITING. IF VOMITING SHOULD OCCUR SPONTANEOUSLY, KEEP AIRWAY CLEAR. GET MEDICAL ATTENTION.

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Handling and Disposal

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Spill Release Procedures: STOP LEAK W/OUT ADDNL RISK. WEAR PROPER PERS PROT EQUIP. DIKE & CONTAIN SPILL. VENT AREA. LGE SPILL: DIKE & PUMP INTO APPROP CONTR FOR RECOVERY. SML SPILL: DILUTE W/WATER & RECOVER/USE INERT, NON-COMB UST ABSORB MATL (E.G., SAND) & SHOVEL INTO SUITABLE CONTR. DO NOT USE SAWDUST, WOOD CHIPS/OTHER CELLULOSIC MATLS TO ABSORB SPILL, AS COMBUST IS POSS. WASH SPILL RESIDUE W/WARM, SOAPY WATER IF NEC.

Waste Disposal Methods: EVACUATION OF THIS PRODUCT USING RCRA CRITERIA SHOWS THAT IT IS NOT A HAZARDOUS WASTE, EITHER BY LISTING OR CHARACTERISTICS, IN ITS PURCHASED FORM. IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE PROPER DISPOSAL METHODS. INCINERATION OR LANDFILL MAY BE PREFERRED METHODS WHEN

CONDUCTED IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
Handling And Storage Precautions: STORAGE TEMPERATURE: 40F (4C) TO 90F (32C).
SHELF LIFE: TWO YEARS OR MORE IN THE ORIGINAL SEALED CONTAINER. MINIMUM
FEASIBLE HANDLING TEMPERATURES SHOULD BE MAINTAINED. IF STORED ABOVE 100F,
NITROGEN ATMOSPHERE IS RECOMMENDED. KEEP CONTAINERS TIGHTLY CLOSED.
Other Precautions: USE ONLY WITH ADEQUATE VENTILATION. AVOID CONTACT WITH SKIN
AND EYES.

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Fire and Explosion Hazard Information
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Flash Point Method: PMCC
Flash Point: >93.3C, 200.F
Extinguishing Media: WATER SPRAY, DRY CHEMICAL, ALCOHOL FOAM AND CARBON DIOXIDE
(CO*2).
Fire Fighting Procedures: WEAR NIOSH APPROVED SCBA AND FULL PROTECTIVE
EQUIPMENT (FP N). IF SPILL HAS IGNITED, USE WATER SPRAY TO DISPERSE VAPORS
AND PROTECT PERSONNEL ATTEMPTING TO STOP LEAK. USE WATER TO COOL FIRE-EXPOSED
CO NTAINERS.
Unusual Fire/Explosion Hazard: WHEN MIXED WITH SAWDUST, WOOD CHIPS, OR OTHER
CELLULOSIC MATERIAL, SPONTANEOUS COMBUSTION CAN OCCUR UNDER CERTAIN
CONDITIONS. IF HARDENER IS SPILLED INTO OR MIXED WITH SAWDUST, HEAT IS
GENERATED AS TH E AIR OXIDIZES THE AMINE. IF THE HEAT IS NOT DISSIPATED
QUICKLY ENOUGH, IT CAN IGNITE THE SAWDUST.

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Control Measures
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Respiratory Protection: IN THE ABSENCE OF ADEQUATE VENTILATION CONTROLS, USE A
NIOSH APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE.
Ventilation: GENERAL MECHANICAL OR LOCAL EXHAUST VENTILATION.
Protective Gloves: LIQ-PROOF, CHEM RESIST GLOVES (NITRILE-BUTYL RUBB, BUTYL
RUBB/NATURAL RUBB).
Eye Protection: ANSI APPROVED CHEMICAL WORKERS GOGGLES AND FULL LENGTH
FACESHIELD (FP N).
Other Protective Equipment: EYEWASH AND DELUGE SHOWER MEETING ANSI DESIGN
CRITERIA (FP N). WEAR FULL BODY-COVERING CLOTHING.
Work Hygienic Practices: CONTACT LENS SHOULD NOT BE WORN WHEN WORKING WITH THIS
MATERIAL. WASH THOROUGHLY AFTER HANDLING.
Supplemental Safety and Health: BULK DENSITY: 8.15 LBS/GAL. % VOLAT BY WT: EPA
METH 24, AS DESCRIBED IN 40 CFR PART 60, WAS USED TO DETERMINE VOLAT MATTER
CONTENT OF MIXED EPOXY RESIN & HARDENER. THIS METH STATES THAT
TWO-COMPONENT COATING SYS SHOULD BE TESTED BY DETERMINING WT LOSS AFTER
MIXING INDIVIDUAL COMPONENTS TOGETHER AT PROPER (ECOL INFO)

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Physical/Chemical Properties
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Boiling Point: >248.9C, 480.F
Vapor Pres: <1 MMHG @ 20C
Vapor Density: HVR/AIR
Spec Gravity: 0.976
PH: 11.1
Viscosity: 160 CPS
Solubility in Water: APPRECIABLE
Appearance and Odor: YELLOW LIQUID WITH AMMONIA-LIKE ODOR.

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Reactivity Data
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Stability Indicator: YES
Materials To Avoid: STRONG OXIDANTS AND ACIDS.
Hazardous Decomposition Products: BURNING WILL PRODUCE TOXIC VAPORS.
Hazardous Polymerization Indicator: NO
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Toxicological Information

Toxicological Information: ORAL: MODERATELY TOXIC. INHALATION: NO DATA. DERMAL: MODERATELY TOXIC.

Ecological Information

Ecological: NO DATA.--SUPDAT: RATIO, DISSOLVING THEM IN AN APPROPRIATE SOLVENT, AND SUBJECTING THEM TO A TEMPERATURE OF 230F. 105 RESIN AND 209 HARDENER, MIXED TOGETHER AT 3:1 BY WEIGHT, HAS A DENSITY OF 1148 G/L (9.58 LBS/GAL). THE COMBINED VOC CONENT FOR 105/209 IS 88.2 G/L (0.74 LBS/GAL).

MSDS Transport Information

Transport Information: D.O.T. SHIPPING NAME: POLYAMINES, LIQUID, CORROSIVE, N.O.S. TECHNICAL SHIPPING NAME: POLYOXYPROPYLENETRIAMINE. D.O.T. HAZARD CLASS: CLASS 8. U.N./N.A. NUMBER: UN2735. PACKING GROUP: PG III.

Regulatory Information

Sara Title III Information: THIS PRODUCT CONTAINS HYDROXYBENZENE (PHENOL) AND IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

Federal Regulatory Information: OSHA STATUS: CORROSIVE; SEVERE IRRITANT; POSSIBLE SENSITIZER. TSCA STATUS: ALL COMPONENTS ARE LISTED ON TSCA INVENTORY.

State Regulatory Information: THE FOLLOWING CHEMICALS ARE SPECIFICALLY LISTED BY INDIVIDUAL STATES; OTHER PRODUCTS SPECIFIC HEALTH AND SAFETY DATA IN OTHER SECTION OF THIS MSDS MAY ALSO BE APPLICABLE FOR STATE REQUIREMENTS. FOR DE TAILS ON YOUR REGULATORY REQUIREMENTS YOU SHOULD CONTACT THE APPROPRIATE AGENCY IN YOUR STATE. HYDROXYBENZENE (PHENOL), CAS # 108-95-2, CONCENTRATION < 6%, STATE CODE PA. PA = PENNSYLVANIA HAZARDOUS S UBSTANCE LIST.

Other Information

HAZCOM Label

Product ID: WEST SYSTEM 209 EXTRA SLOW HARDENER, 209

Cage: 7S147

Company Name: GOUGEON BROTHERS, INC

Street: 100 PATTERSON AVE

City: BAY CITY MI

Zipcode: 48706

Health Emergency Phone: 313-745-5711

Label Required IND: Y

Date Of Label Review: 08/05/1999

Status Code: A

Origination Code: F

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: DANGER

Respiratory Protection IND: YES

Health Hazard: Severe

Contact Hazard: Severe

Fire Hazard: Slight

Reactivity Hazard: None

Hazard And Precautions: CORROSIVE. ACUTE: INHALATION: CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE CHEST PAIN & COUGHING. SKIN: MODERATELY CORROSIVE. PROLONGED CONTACT MAY CAUSE SKIN DAMAGE W/BURNS & BLISTERING. WIDE SPREA

D CONTACT MAY RESULT IN MATERIAL BEING ABSORBED IN HARMFUL AMOUNTS. EYE: SEVERE IRRITANT. MAY CAUSE PERMANENT EYE DAMAGE. INGESTION: MODERATELY TOXIC. CAUSES BURNING OF THE MOUTH & THROAT. MAY CAUSE BLEEDING OF THE GASTROINTESTINAL TRACT. CHRONIC: INHALATION: PROLONGED/REPEATED EXPOSURE MAY CAUSE LUNG DAMAGE. SKIN: MAY CAUSE PERSISTENT IRRITATION/DERMATITIS. REPEATED CONTACT MAY CAUSE ALLERGIC REACTION/SENSITIZATION & POSSIBLE TISSUE DESTRUCTION.

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