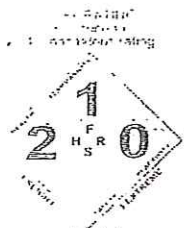


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HEAVY DUTY FLOOR STRIPPER
FL-2100-C/D/E & FL-2100-30-PK

DATE PREPARED: 01/10/06

DATE REVISED: 04/29/11

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MATERIAL SAFETY DATA SHEET (MSDS)

SECTION I - IDENTITY AND RESPONSIBLE PARTY INFORMATION



PEN PRODUCTS
INDIANA DEPARTMENT OF CORRECTION
2010 E NEW YORK STREET
INDIANA 46201

HMIS HAZARD RATING	
HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	NA

24-HOUR EMERGENCY NUMBER - CHEMTREC (800) 424-9300

TOLL FREE:(800) PEN-2550

DIRECT:(317) 955-6800

IDENTITY (AS LISTED ON LABEL): HEAVY DUTY FLOOR STRIPPER

SECTION II COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS #	PERCENT
2-BUTOXYETHANOL	111-76-2	<40
ETHANOLAMINE	141-43-5	<10
D-LIMONENE	5989-27-5	<1
NON-HAZARDOUS AND OTHER COMPONENTS BELOW REPORTABLE LEVELS		<>60

SECTION III- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: WARNING
 HARMFUL BY INHALATION; IN CONTACT WITH SKIN AND IF SWALLOWED, PROLONGED EXPOSURE MAY CAUSE CHRONIC EFFECTS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. THIS PRODUCT IS NOT CONSIDERED TO BE A CARCINOGEN BY IARC, ACGIH, NTP, OR OSHA.
POTENTIAL SHORT TERM HEALTH EFFECTS
EYES: AVOID CONTACT WITH EYES. THIS PRODUCT MAY CAUSE IRRITATION TO THE EYES.
SKIN: PROLONGED SKIN CONTACT MAY CAUSE SKIN IRRITATION.
INHALATION: PROLONGED OR EXCESSIVE INHALATION MAY CAUSE RESPIRATORY TRACT IRRITATION.
INGESTION: DO NOT INGEST. IRRITATING TO MOUTH, THROAT, AND STOMACH.

SECTION IV -FIRST AID MEASURES

FIRST AID PROCEDURE
EYES CONTACT: RINSE IMMEDIATELY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS, FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.
SKIN CONTACT: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE RE-USED.
INHALATION: MOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
INGESTION: IF CONSCIOUS, DRINK PLENTY OF WATER. CALL A PHYSICIAN IMMEDIATELY.
NOTES TO PHYSICIAN: SYMPTOMS MAY BE DELAYED.
GENERAL ADVICE: IN THE CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).



SECTION V- FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: NONE KNOWN.

EXTINGUISHING MEDIA SUITABLE EXTINGUISHING MEDIA:

DRY CHEMICAL, CO2, WATER SPRAY OR REGULAR FOAM.

SECTION VI- ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: ENSURE ADEQUATE VENTILATION. DO NOT TOUCH DAMAGED DAMAGED CONTAINERS OR SPILLED MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING. USE PERSONAL PROTECTIVE EQUIPMENT.

ENVIRONMENTAL PRECAUTIONS: PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO.

METHOD FOR CONTAINMENT: STOP THE FLOW OF MATERIAL, IF THIS IS WITHOUT RISK.

METHODS FOR CLEANING UP: NEVER RETURN SPILLS IN ORIGINAL CONTAINERS FOR RE-USE.

LARGE SPILLS: ABSORB WITH EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL AND TRANSFER TO CONTAINERS FOR LATER DISPOSAL. DIKE FAR AHEAD OF LIQUID SPILL FOR LATER DISPOSAL.

SMALL SPILLS: WIPE UP WITH ABSORBENT MATERIAL (E.G. CLOTH, FLEECE). CLEAN CONTAMINATED SURFACE THOROUGHLY.

SECTION VII- HANDLING AND STORAGE

HANDLING: DO NOT BREATHE GAS/FUMES/VAPOR/SPRAY. AVOID CONTACT WITH SKIN AND EYES.

STORAGE: KEEP OUT OF THE REACH OF CHILDREN KEEP AT TEMPERATURES BETWEEN 4 AND 48°C.

SECTION VIII- EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: USE GENERAL VENTILATION.

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: GOGGLES OR SAFETY GLASSES.

SKIN PROTECTION: WEAR IMPERVIOUS GLOVES FOR PROLONGED CONTACT.

RESPIRATORY PROTECTION: NOT NORMALLY NEEDED. A NIOSH-APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS.

GENERAL HYGIENE CONSIDERATIONS: HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

SECTION IX- PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: CLEAR LIQUID

COLOR: YELLOW GREEN

ODOR: MILD CITRUS AND SOLVENT

ODOR THRESHOLD: NOT AVAILABLE

FORM: LIQUID

PH: 12.8

FREEZING POINT: -94°F (-70°C) ESTIMATED

BOILING POINT: 212°F (100°C)



PEN PRODUCTS

PRODUCT NAME: HEAVY DUTY FLOOR STRIPPER

INDIANA DEPT OF CORRECTION

PRODUCT NUMBER: FL-2100-C/D/E & FL2100-30-PK

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FLASH POINT: >200° F (>93.3°) PENSKY-MARTENS CLOSED CUP

EVAPORATION RATE: 1

FLAMMABILITY LIMITS IN AIR, UPPER, % BY VOLUME: N/A

FLAMMABILITY LIMITS IN AIR, LOWER, % BY VOLUME: N/A

VAPOR DENSITY: 4(2-BUTOXYETHANOL)

SPECIFIC GRAVITY: 0.986

SOLUBILITY (WATER): 100%

VOC: 36%

SECTION X- STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE AT NORMAL CONDITIONS.

CONDITIONS TO AVOID: DO NOT FREEZE.

INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS. ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS: AT THERMAL DECOMPOSITION TEMPERATURES

CARBON MONOXIDE AND CARBON DIOXIDE. NITROGEN OXIDES (NOx)

POSSIBILITY OF HAZARDOUS REACTIONS: WILL NOT OCCUR.

SECTION XI- TOXICOLOGY INFORMATION

ACUTE EFFECTS: ACUTE LD50: 1554 MG/KG, RAT, ORAL

ACUTE LD50: 786 MG/KG, RAT, DERMAL

ACUTE LC50: 1607mg/l/4h, RAT, INHALATION

EYE IRRITATION

LOCAL EFFECTS: TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

LIVER TOXICITY. BLOOD DISORDER MAY OCCUR AFTER INGESTION. MAY CAUSE SENSITIZATION BY SKIN CONTACT.

CHRONIC EFFECTS: REPEATED ABSORPTION MAY CAUSE DISORDER OF CENTRAL NERVOUS SYSTEM, LIVER, KIDNEYS AND BLOOD.

FURTHER INFORMATION: SYMPTOMS MAY BE DELAYED.

SECTION XII- ECOLOGICAL INFORMATION

ECOTOXICITY: COMPONENTS OF THIS PRODUCT HAVE BEEN IDENTIFIED AS HAVING POTENTIAL ENVIRONMENTAL CONCERNS.

AQUATIC TOXICITY: MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

SECTION XIII- DISPOSAL CONSIDERATIONS

WASTE CODES D002: WASTE CORROSIVE MATERIAL [PH<=2 OR =>12.5, OR CORROSIVE TO STEEL]

DISPOSAL INSTRUCTIONS DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE. DISPOSE OF THIS MATERIAL AND ITS CONTAINER AT HAZARDOUS OR SPECIAL WASTE COLLECTION POINT.

SECTION XIV- TRANSPORT INFORMATION

DOT

BASIC SHIPPING REQUIREMENTS:

PROPER SHIPPING NAME CORROSIVE LIQUIDS, n.o.s. (2-BUTOXYETHANOL, POTASSIUM HYDROXIDE RQ=769231LBS)

HAZARD CLASS

8



PEN PRODUCTS

PRODUCT NAME:HEAVY DUTY FLOOR STRIPPER

INDIANA DEPT OF CORRECTION

PRODUCT NUMBER: FL-2100-C/D/E & FL2100-30-PK

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UN NUMBER UN 1760

PACKAGING GROUP II

ADDITIONAL INFORMATION:

SPECIAL PROVISIONS B2,IB2,T11,TP2,TP27

PACKAGING EXCEPTIONS 154

PACKAGING NON BULK 202

PACKAGING BULK 242

ERG NUMBER 154

DOT REQUIREMENTS NON-BULK

BASIC SHIPPING REQUIREMENTS:

UN NUMBER UN 1760

PROPER SHIPPING NAME CORROSIVE LIQUIDS.n.o.s.(2-BUTOXYETHANOL,POTASSIUM HYDROXIDE RQ=769231LBS)

HAZARD CLASS 8

UN NUMBER UN 1805

PACKAGING GROUP II

ADDITIONAL INFORMATION:

SPECIAL PROVISIONS B2,IB2,T11,TP2,TP27

PACKAGING EXCEPTIONS 154

PACKAGING NON BULK 202

PACKAGING BULK 242

LABELS REQUIRED 8

IATA

BASIC SHIPPING REQUIREMENTS:

PROPER SHIPPING NAME CORROSIVE LIQUIDS.n.o.s.(2-BUTOXYETHANOL,POTASSIUM HYDROXIDE RQ=769231LBS)

HAZARD CLASS 8

UN NUMBER UN 1760

PACKAGING GROUP II

ADDITIONAL INFORMATION:

PACKAGING EXCEPTIONS 154

PACKAGING INSTRUCTIONS 812

CARGO ONLY

PACKAGING NON BULK 202

PACKAGING BULK 242

MAXIMUM NET QUANTITY PACKAGING 1 L

MAXIMUM NET QUANTITY PACKAGING CARGO ONLY 30 L

LABELS REQUIRED 8

ERG CODE 8L

IMDG:

BASIC SHIPPING REQUIREMENTS:

PROPER SHIPPING NAME CORROSIVE LIQUIDS.n.o.s.(2-BUTOXYETHANOL,POTASSIUM HYDROXIDE RQ=769231LBS)

HAZARD CLASS 8

UN NUMBER UN 1760

PACKAGING GROUP II



PEN PRODUCTS

PRODUCT NAME:HEAVY DUTY FLOOR STRIPPER

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ADDITIONAL INFORMATION:

PACKAGING EXCEPTIONS	154
HAZARD ID	80
ITEM	C9
LABELS REQUIRED	8
TRANSPORT CATEGORY	2

SECTION XV- REGULATORY INFORMATION

US FEDERAL REGULATIONS: THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, CFR 1910 1200

CERCLA (SUPERFUND) REPORTABLE QUANTITY 2-BUTOXYETHANOL: 1.0000

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

HAZARD CATEGORIES IMMEDIATE HAZARD-YES
 DELAYED HAZARD-YES
 FIRE HAZARD-NO
 PRESSURE HAZARD-NO
 REACTIVITY HAZARD-NO

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE: NO

SECTION 311 HAZARDOUS CHEMICAL: YES

STATE REGULATIONS: THIS PRODUCT DOES NOT CONTAIN A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

US-PENNSYLVANA RTK-HAZARDOUS SUBSTANCE: LISTED SUBSTANCE

2-BUTOXYETHANOL(111-76-2)

LISTED

ETHANOLAMINE(141-43-5)

LISTED

SECTION XVI- OTHER INFORMATION

THE INFORMATION PROVIDED IN THIS SAFETY DATA SHEET IS CORRECT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF AT THE DATE OF ITS PUBLICATION. THE INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS UNLESS SPECIFIED IN THE TEXT. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE.