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# HEAVY DUTY CLEANER/ DEGREASER

**Non Combustible - For Institutional use only.  
Contains no butyl cellosolve or other toxic solvents**

**FOR USE IN HOT OR COLD WATER**

- **MAXIMUM POWER** - degreases solid surfaces
- **CONTROLLED SUDS** - for use in automatics - **BIODEGRADABLE**
- **VERSATILE** - can be used in steam and mechanical cleaning
- **DEODORIZES - SYNER-BLENDED** - and inhibited against rusting and corrosion
- **EASY-free rinsing-SEQUESTERED** - against power fade out in hardest water
- **DEGREASES**-automotive and industrial soil

**DIRECTIONS FOR USE:**

For use in Automatic Scrubbers: Increase strength of use dilution only enough to remove soil present.

For Steam Cleaning: To the concentrate solution tank, mix 4 - 14 ounces to each gallon of water. Adjust the solution tank valve to obtain amount of cleaner required for different soil conditions. This product can be used for soak tank cleaning at 12 ounces per gallon of water.

**NOTE:**

In changing from a powder compound to this product, inspect and clean coil to remove powder particles or accumulated scale. In the event this container is frozen, it can be thawed by placing a steam hose in the container and heating.

For Spray Cleaning: Prepare solution and apply by spray to surface, let stand approximately 5 - 10 minutes. Then rinse with clear water spray.

High Pressure Spray Equipment : Mix initial solution for supply tank as shown below and adjust metering valve for efficient final dilution with water.

General Cleaning: Prepare solution strength desired according to table below. Apply solution by mop or sponge, scrub if necessary, then rinse thoroughly.

Soil	Parts Of	
	Cleaner	Water
Light (dry soil)	1	20
Medium (new oily soil)	1	10
Heavy (aged oil dry soil)	1	3
For use in automatic scrubbers, increase strength of use dilution only enough to remove soil present		

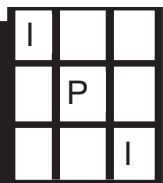
**CAUTION:  
KEEP OUT OF THE REACH OF CHILDREN**

**KEEP FROM FREEZING**

**Only for sale to, use and storage by Service Personnel.**

For best product efficiency keep stock rotated.  
Shelf life is 1 year.

Judgements as to the suitability of the information provided herein for the purchaser's purposes are necessarily the purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Iowa Prison Industries extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to the purchaser's intended purposes or for the consequences of its use.



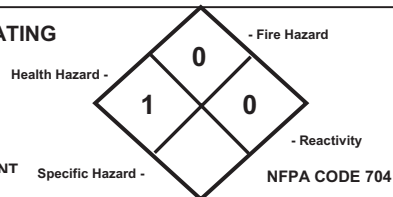
**IOWA  
PRISON  
INDUSTRIES**

**MATERIAL SAFETY DATA SHEET**  
(Prepared According to 29 CFR 1910.1200)

Date Prepared: 4/13/07  
Supersedes Date: 3/1/97

**HAZARD RATING**

4-EXTREME  
3-HIGH  
2-MODERATE  
1-SLIGHT  
0-INSIGNIFICANT



**SECTION 1 - PRODUCT IDENTIFICATION**

Manufacturer Name IOWA PRISON INDUSTRIES	Emergency Telephone No. (515) 967-7651
Address 300 Elm St. SW, Mitchellville, Iowa 50169	
Trade Name- <b>HEAVY DUTY CLEANER/DEGREASER</b>	Product Type- Aqueous Liquid Detergent/Degreaser
Chemical Family-	Formula- Proprietary Blend

**SECTION 2 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME / COMMON NAME	CAS. NO	PERCENT (optional)	OSHA STANDARDS	ACGHI GUIDELINES
Dipropylene glycol methyl ether	34590-94-8	1-5	100 ppm	100 ppm
Propylene glycol methyl ether	107-98-2	1-5	NE	100 ppm
Sodium Hydroxide	1310-73-2			2 mg/M3
Dodecylbenzene glycol methyl ether	34590-94-8			100 ppm

**SECTION 3 - PHYSICAL DATA**

Boiling Point (°F)- 212-220	Specific Gravity (H2O = 1.0)- 1.02-1.04	PH- 11.5@1:1
Vapor Pressure- (mmHg) NE	Vapor Density ( Air = 1)- NE	
Solubility in Water- <input checked="" type="checkbox"/> Complete <input type="checkbox"/> Insoluble <input type="checkbox"/> Emulsifiable (or dispersible) <input type="checkbox"/> Slight (or partial)		
Evaporation Rate- (vs H2O) <1.0 <input type="checkbox"/> Faster <input type="checkbox"/> Slower <input checked="" type="checkbox"/> About the Same		
Appearance and Odor- Purple liquid, organic odor		

**SECTION 4 - FIRE AND EXPLOSION HAZARD DATA**

Flash Point- (T.C.C.) >200° F <input checked="" type="checkbox"/> None to Boiling	Flammable Limits- Upper - Lower-
Extinguishing Media - Water, Carbon Dioxide, Dry Chemical, Foam Blanket	
Special Fire Fighting Procedures — Always wear self contaminated breathing apparatus when fighting a chemical fire.	
Unusual Fire and Explosion Hazards — Carbon Monoxide/Carbon Dioxide/Nitrogen Oxides gases (toxic) liberated durin combustion. Physical Hazards - NA	

**SECTION 5 – REACTIVE DATA**

Stability- Stable	Incompatibility- Acids, Heat
Hazardous Decomposition Products- Monoxide/Carbon Dioxide/Nitrogen Oxides gases (toxic) liberated durin combustion.	

**SECTION 6 - HEALTH HAZARDS**

Primary Routes of Exposure- <input checked="" type="checkbox"/> Eye <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Oral <input type="checkbox"/> Inhalation <input type="checkbox"/> Other-
Signs and Symptoms of Over-Exposure (Acute)- N/A
Signs and Symptoms of Over-Exposure (Chronic)- This product and its solutions, in mist form will strongly irritate mucosal membranes, bronchial passages, and lung tissue. If allowed to remain on skin for extended periods of time irritation may occur. Irritates on contact. Corneal damage possible with extended exposure. Irritates the gastrointestinal tract.
Medical Conditions Aggravated by Over-Exposure- Pre-existing skin conditions may be aggravated.
Carcinogen or Suspect Carcinogen Ingredients- <input type="checkbox"/> NTP <input type="checkbox"/> IARC <input type="checkbox"/> OSHA <input checked="" type="checkbox"/> NONE

**SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES**

Eyes: Flush eyes with large quantities of water for 15 minutes; lifting upper and lower lids. If irritation persists, or inflammation or swelling occurs, seek medical attention.
Skin: Rinse affected area thoroughly with flowing water. Remove contaminated clothing. If irritation persists, contact physician.
Ingestion: DO NOT INDUCE VOMITING! Give 2 glasses of water. Never give an unconscious person anything by mouth. Contact a physician.
Inhalation: Remove to fresh air. Start artificial respiration if necessary. Oxygen may be administered. Call a physician.

**SECTION 8 – SPECIAL PROTECTION INFORMATION**

Respiratory Protection- NIOSH approved self contained breathing apparatus for exposure above PEL.	
Ventilation Requirements- <input type="checkbox"/> Local Exhaust <input checked="" type="checkbox"/> Mechanical <input type="checkbox"/> Other- General exhaust acceptable if PEL not exceeded.	
Protective Gloves- Impermeable gloves	Eye Protection- Safety glasses
Other Protective Clothing- Protective clothing appropriate to minimize contact.	

**SECTION 9 – SPILL OR LEAK PROCEDURES**

Steps to be Taken if Released or Spilled- Avoid contamination of food, feed, waterway, or groundwater. Capture material and contain fer reuse or disposal. Remainder may be neutralized with a mild acid (vinegar) and rinsed to a sewer.
Waste Disposal Methods- In accordance with local, state, and federal regulations.

**SECTION 10 – STORAGE AND HANDLING INFORMATION**

Precautions to be Taken in Handling and Storage- Keep container closed when not in use. Store in a cool, dry location.
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