

Material Safety Data Sheet

FEB 09 1990

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)

May be used to comply with

OSHA's Hazard Communication Standard,

29 CFR 1910.1200. Standard must be

consulted for specific requirements.

Great Lakes Castings Corp.
Ludington, Mich 49424
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List)

STEELCARD 1938-K1

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name HARRY MILLER CORPORATION	Emergency Telephone Number (215) 324-4000
Address (Number, Street, City, State, and ZIP Code) 4th & BRISTOL STREETS	Telephone Number for Information (215) 324-4000
PHILADELPHIA, PA. 19140	Date Prepared REVISION #1; 9/11/89
	Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Mineral Oil (if misted) CAS #64742-46-7	5mg/M ³ TWA	5mg/M ³ TWA	NONE	35-40%
Petroleum Hydrocarbon Solvent CAS #8008-05-9	500ppm TWA	500 ppm TWA	NONE	50-55%

As required by Section 313 of SARA Title III of 1988 and 40 CFR Part 372, this product contains the following items in a reportable quantity.

Dim Dinonylnaphthalene Sulfonate CAS #61790-48-5 0.50 - 0.55%

Section III — Physical/Chemical Characteristics

Boiling Point >400°F.	Specific Gravity (H ₂ O = 1) 0.86
Vapor Pressure (mm Hg.) Not Est.	Melting Point < 0°F.
Vapor Density (AIR = 1) >1	Evaporation Rate (Butyl Acetate = 1) < 1
Solubility in Water Insoluble	
Appearance and Odor Brown Liquid; Solvent Odor	

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) 150° (COC)	Flammable Limits	LEL 0.7%	UEL 5.0%
Extinguishing Media Use foam, dry chemicals or carbon dioxide.			
Special Fire Fighting Procedures Cover surface of burning liquid with extinguishing agent. Keep exposed containers cool with water. Wear self contained breathing apparatus.			
Unusual Fire and Explosion Hazards Combustible liquid. Will burn. Do not use near open flames or other ignition sources.			

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid)

Strong oxidizing agents.

Hazardous Decomposition or Byproducts

If incompletely combusted, fumes, smoke and carbon monoxide and oxides of barium.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?	
		Irritant if overexposed	Irritant if overexposed	Low Hazard

Health Hazards (Acute and Chronic)

Eyes - Minor irritation may occur

Inhalation - Irritation to upper respiratory tract if ingested over limit.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
NO	NO	NO	NO

Signs and Symptoms of Exposure

Eyes - Burning, tearing, reddening; Skin - Irritation possibly leading to dermatitis if prolonged contact occurs; Inhalation - Irritation to respiratory tract.

Medical Conditions

Generally Aggravated by Exposure Pre-existing respiratory ailments.

Emergency and First Aid Procedures Skin - Wash well with water. Use barrier cream if irritation occurs.
 Eyes - Immediately flush with water for 15 minutes. If irritation persists call a physician.

Inhalation - Remove to fresh air. Seek medical attention if breathing is difficult.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Remove all source of ignition. Use ventilation to promote drying. Use absorbent
 to soak up. Keep from entering sewers or waterways.

Safe Disposal Method

Absorb with inert material and dispose in secure landfill.
 Dispose according to Federal, State and local regulations.

Precautions to Be Taken in Handling and Storing

Keep container closed. Do not handle or store near heat, sparks, or open flame.

Precautions

Since containers contain product residue, observe all label precautions when empty. Do not
 cut, drill, weld or grind on or near container. Do not reuse unless thoroughly cleaned.

Section VIII — Control Measures

Respiratory Protection (Specify Type)

If exposure exceeds TLV, wear NIOSH approved respirators.

Respiratory Protection	Local Exhaust	Special
	Normal	Not required
Respiratory Protection	Mechanical (General)	Other
	Not required	

Gloves

Not required

Eye Protection

Safety Glasses or Goggles

Protective Clothing or Equipment

Not required

Hygienic Practices

Wash well after use. Remove contaminated clothing.