

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: Low carbon steel wool, handpads and reels (GMT Documentation # MAN-0408-000)

Alternate Means of Identification: Low carbon steel wool, handpads and reels

Intended Use: Low carbon steel wool, handpads and reels

Restrictions of Use: None

Manufacturer: GMT
2825 West 31st St.
Chicago, IL 60623
(773) 247-6000

Emergency Phone Number: 773-247-6000 ext. 137

SDS Date of Preparation: 2014.03.28

2. HAZARDS IDENTIFICATION

GHS Classification: Not Hazardous

Physical:
None

Health:
None

Environmental
None

GHS Label Elements: No GHS Labeling Required

Under normal conditions of use, no exposure to hazardous chemicals occurs. Melting or grinding the material can release hazardous fumes or dust. Such processing is not an intended use of this product. Overexposure is not anticipated to be significant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percentage
Iron	7439-89-6	>98.5%
Non-hazardous cutting fluid	Mixture	<1.5%

*This product may contain trace amounts of carbon, manganese, phosphorous, silicon, and sulfur.

This product is an article consisting of a set of shaved low carbon steel processed with non-hazardous cutting fluid.

4. FIRST AID MEASURES

No first aid should be required for the normal use of this product.

Eye: If particles enter eyes, do not rub eyes. Wash eyes under slowly running water, making sure eyes are held wide open and moved slowly in every direction. Ensure no solid particles remain in creases of eyelids. If so, continue to wash. If irritation persists, consult an ophthalmologist.

Skin: Flush with water.

Ingestion: Not an anticipated route of exposure. If product is swallowed, do not induce vomiting. Seek immediate medical advice.

Inhalation: No first aid should be required. If dusts or fumes have been generated, remove victim to fresh air. If symptoms or irritation occur and persist, consult a physician.

Most Important Symptoms/Effects, Acute and Delayed: Particulate may cause eye and respiratory tract irritation. May cause mechanical skin irritation.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary: None indicated

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use media appropriate to primary source of fire.

Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: Product will burn quickly with direct ignition source. Fine dust may present a fire or explosion hazard.

Combustion Products: Metal fumes.

Advice for Firefighters: Firefighters should wear appropriate protective equipment; avoid breathing fumes or dust; keep upwind.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, Emergency Procedures:

Wear appropriate eye protection (safety glasses) and cloth or leather gloves.

Environmental Precautions:

Report spills and releases as required to appropriate authorities.

Methods and Materials for Containment and Clean-up

Solid material should not pose a hazard if spilled. Pick up spilled material and reuse or place in a suitable container for disposal.

References to Other Sections: Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Solid material should not require special handling. Avoid generating dust.

Conditions for Safe Storage, Including any Incompatibilities: Store in a dry location. Keep product sealed in its packaging to prevent moisture conditions. Keep away from direct sources of intense heat. Avoid contact with strong acids and certain salts.

Specific End Use(s): None

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

The main ingredients of this product do not have listed exposure limits.

Engineering Controls

Ventilation: None required under normal use conditions. Cutting or processing may product dust, use a local and general mechanical dust collection and ventilation in accordance with good engineering practices to minimize exposures levels.

Personal Protective Equipment

Respiratory Protection: None required under normal use conditions. Use NIOSH approved respirator if ventilation is inadequate to control dusts, mists, fumes, or vapors.

Skin Protection: Wear leather or cotton gloves.

Eye Protection: Approved safety glasses are recommended. If processing generates dust, safety glasses with side-shields or tight fitting goggles can be worn to prevent eye irritation or contact.

Other Protective Equipment: None needed under normal use conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor: Negligible	Odor Threshold: None established
Physical State and Appearance: Fibrous metallic gray solid in reel, handpad, and/or wool format	Initial Boiling Point and Boiling Range: 4982°C (2795°F)
Vapor Density: Not applicable	Vapor Pressure: 1 mmHg @ 1787°C
Solubility In Water: Insoluble, can react with water	Evaporation Rate: Negligible
Specific Gravity: 7.86 @ 20°C	pH: Not applicable
Melting/Freezing Point: 2795°C (1535°F)	Partition coefficient: n-Octanol/Water: Negligible
VOC Content: Not determined	Flashpoint: Not applicable
Flammable Limits: LEL: Not applicable UEL: Not applicable	Autoignition Temperature: Not applicable
Flammability: Will burn quickly when ignited	Relative Density: Not determined
Decomposition Temperature: Not established	Viscosity: Solid

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.

Chemical Stability: Stable under normal conditions

Possibility of Hazardous Reactions: None expected.

Conditions to avoid: Avoid moisture, heat, flame, ignition sources, and dusting.

Incompatible Materials: Strong acids, certain salts, strong oxidizers, hydrogen peroxide, nitrogen dioxide, and moisture.

Hazardous Decomposition Products: If heated, product can release toxic fumes (iron oxides).

11. TOXICOLOGICAL INFORMATION

Use of this product under normal conditions will not result in exposure to hazardous chemicals. The following information applies only if processing generates a dust or fume.

Information on Toxicological Effects:

There are currently no toxicity data available for this product. The following toxicology information is available for Iron, the main component of this product:

Eye: Dust may irritate eyes causing redness, tearing, conjunctivitis.

Skin: Dust may irritate skin.

Inhalation: Dust may irritate nasal passages and respiratory tract. Overexposure to dust may cause metal fume fever.

Ingestion: May cause slight irritation.

Chronic: No data available.

Acute Toxicity Values:

Oral rat LD50: 30 g/kg

Carcinogenicity:

Ingredient	IARC	NTP	NIOSH	OSHA	ACGIH
Iron (Fe)	3	No	No	No	A4

None of the other ingredients present at >0.1% are listed as carcinogens by any of the above agencies.

Irritancy of product	Can be mildly mechanically irritating
Sensitization of product	No ingredients are listed as sensitizers
Toxicological synergetic products	None known

Reproductive toxicity information

Mutagenicity	Is not expected to produce mutagenic effects in humans
Embryotoxicity	Is not expected to produce embryotoxic effects in humans
Teratogenicity	Is not reported to produce teratogenic effects in humans
Reproductive Toxicity	Is not reported to product reproductive toxicity in humans

Specific Target Organ Toxicity: No data available

12. ECOLOGICAL INFORMATION

Toxicity: This product is not anticipated to cause significant effects on plants or animals if released in small amounts. This product may be harmful to aquatic life if released in very large amounts.

Persistence and Degradability: Product is not expected to biodegrade.

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Results of PBT and vPvB Assessment: No data available

Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose in accordance with local and national environmental regulations.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Description:

Proper Shipping Name: Not Regulated

UN Number: None
Hazard Class/Packing Group: None
Labels Required: None
North American Response Guidebook Number (2000): None

Transport Canada Transportation of Dangerous Goods Regulations: This product is not regulated as a dangerous good.

This product is not regulated for transport by IMDG or ICAO.

15. REGULATORY INFORMATION

Safety, Health and Environment Regulations/Legislation Specific for the Substance of Mixture:

CERCLA: This product is not subject to reporting to under CERLCA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA TITLE III:

Hazard Category for Section 311/312: Not Hazardous

Chemical	SARA Section 302 (405 CFR 355, Appendix A)	Section 304 (40 CFR Table 302.4)	Section 313 (40 CFR 372.65)
Iron	No	No	No
Non-hazardous Cutting Fluid	No	No	No

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

STATE REGULATIONS:

California Proposition 65: This product may contain an ingredient known to the State of California to cause cancer and/or reproductive toxicity.

Canadian WHMIS Classifications: This product is an article and is exempt from WHMIS labeling.

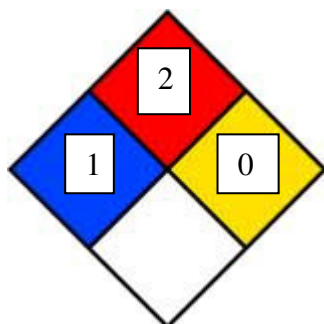
INTERNATIONAL CHEMICAL INVENTORY STATUS:

Canada DSL	Yes
Australia AICS	Yes
China IECSC	Yes
European Union EINECS	Yes
Japan ENCS	Yes
Korea KECL	Yes
New Zealand NZIoC	Yes
Philippines PICCS	Yes

16. OTHER INFORMATION

Revision Summary:

2014.01.13: Updated SDS to GHS/HazCom 2012



NFPA Classification

Chemical Name	
HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	0

HMIS Rating

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. GMT shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.