10-091

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name 102, 104, 108 Mold Release

Version # 02

Revision date 11-02-2010

Product use

Manufacturer information

Hastings Fiber Glass
770 Cook Rd
Hastings, MI 49058
Telephone: 269-945-9541
CHEMTREC: 800-424-9300
CHEMTREC International: 00 1-703-527-3887

2. Hazards Identification

Physical state Solid.

Appearance Wax.

Emergency overview WARNING!
Combustible vapor. May be ignited by heat, sparks or flames.

Causes eye irritation. Harmful: may cause lung damage if swallowed. Vapors may cause drowsiness and dizziness. Prolonged or repeated skin contact may cause drying, cracking, or irritation.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Eyes Causes eye irritation.

Skin Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Inhalation In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.

Ingestion Harmful: may cause lung damage if swallowed. Irritating to mouth, throat, and stomach. Aspiration of this product may cause a pneumonia-like reaction of lung tissue.

Chronic effects Small amounts of benzene may be present. Benzene is listed as a human carcinogen by IARC.

Potential environmental effects The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Stoddard solvent	8052-41-3	70 - 80
Carnauba wax	8015-86-9	10 - 15
Polyalkyl siloxane	63148-62-9	5 - 10
Polyethylene, oxidized	68441-17-8	1 - 5

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

Skin contact Wash skin thoroughly with soap and water. Get medical attention if irritation develops and persists.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention, if needed.

Ingestion	Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.
Notes to physician	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General advice	Take off contaminated clothing and shoes immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

5. Fire Fighting Measures

Flammable properties	Combustible. Heat may cause the containers to explode.
Extinguishing media	
Suitable extinguishing media	Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Protection of firefighters	
Protective equipment and precautions for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Fire fighting equipment/instructions	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do so without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	In the event of fire and/or explosion do not breathe fumes.
Hazardous combustion products	Carbon monoxide. Carbon Dioxide. Silicon oxides.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Methods for containment	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Small Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste. Should not be released into the environment. Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system.
Other information	Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling	Wear personal protective equipment. Avoid breathing high vapor concentrations. Avoid contact with eyes and prolonged or repeated contact with skin. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. Keep away from sources of ignition - No smoking. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Take precautionary measures against static discharges. When using, do not eat, drink or smoke.
Storage	Keep away from heat, sparks and open flame. Store in cool place. Keep in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Stoddard solvent (8052-41-3)	TWA	100 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Stoddard solvent (8052-41-3)	PEL	500 ppm
		2900 mg/m3

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
Stoddard solvent (8052-41-3)	TWA	100 ppm
		572 mg/m3

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
Stoddard solvent (8052-41-3)	STEL	580 mg/m3
	TWA	290 mg/m3

Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
Stoddard solvent (8052-41-3)	TWA	525 mg/m3

Canada. Quebec OELS. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value
Stoddard solvent (8052-41-3)	TWA	100 ppm
		525 mg/m3

Mexico. Occupational Exposure Limit Values

Components	Type	Value
Stoddard solvent (8052-41-3)	STEL	1050 mg/m3
		200 ppm
	TWA	523 mg/m3
		100 ppm

Engineering controls Use explosion-proof ventilation equipment. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection Wear approved safety goggles.

Skin protection Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

General hygiene considerations Avoid contact with eyes. Avoid contact with skin. When using, do not eat, drink or smoke. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance Wax.

Color Various.

Odor Hydrocarbon-like.

Odor threshold	Not available.
Physical state	Solid.
Form	Wax.
pH	Not available.
Melting point	Not available.
Freezing point	Not available.
Boiling point	Not available.
Flash point	> 100.4 °F (> 38 °C) Cleveland Closed Cup (Estimated)
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	< 1 (Estimated)
Solubility (water)	Negligible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous decomposition products	No hazardous decomposition products are known.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components	**Test Results**
Polyalkyl siloxane (63148-62-9)	Acute Dermal LD50 Rabbit: >= 5000 mg/kg
	Acute Oral LD50 Rat: >= 17000 mg/kg

Acute effects	May be fatal if swallowed and enters airways.
Local effects	Causes eye irritation. Prolonged skin contact may cause dermatitis. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Sensitization	May cause allergic skin disorders in sensitive individuals.
Chronic effects	Prolonged or repeated exposure may cause lung injury.
Carcinogenicity	The product may contain benzene which may cause cancer and cause blood disorders

IARC Monographs. Overall Evaluation of Carcinogenicity

Stoddard solvent (CAS 8052-41-3)	3 Not classifiable as to carcinogenicity to humans.

Epidemiology	Not available.
Mutagenicity	Not available.
Neurological effects	High vapor/aerosol concentrations (attainable only at elevated temperatures) may cause central nervous system effects such as dizziness, drowsiness or headaches.
Reproductive effects	Not available.
Teratogenicity	Not available.
Further information	Symptoms may be delayed.

12. Ecological Information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Aquatic toxicity	This material is not expected to be harmful to aquatic life.
Persistence and degradability	Not available.
Bioaccumulation / Accumulation	No data available.
Partition coefficient (n-octanol/water)	Not available.
Mobility in environmental media	No data available.

13. Disposal Considerations

Waste codes	D001: Waste Flammable material with a flash point <140 °F
Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations. This material and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not contaminate ponds, waterways or ditches with chemical or used container.

14. Transport Information

DOT

Basic shipping requirements:

UN number	UN3175
Proper shipping name	Solids containing flammable liquid, n.o.s. (Stoddard solvent)
Hazard class	4.1
Packing group	II
Labels required	4.1

Additional information:

Special provisions	47, IB6, IP2, T3, TP33
Packaging exceptions	151
Packaging non bulk	212
Packaging bulk	240
ERG number	133

IATA

Basic shipping requirements:

UN number	3175
Proper shipping name	Solids containing flammable liquid, n.o.s. (Stoddard solvent)
Hazard class	4.1
Packing group	II

Additional information:

ERG code	3L

IMDG

Basic shipping requirements:

UN number	3175
Proper shipping name	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Stoddard solvent)
Hazard class	4.1
Packing group	II
EmS No.	F-A, S-I

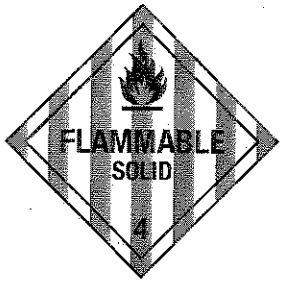
TDG

Basic shipping requirements:

Proper shipping name	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Stoddard solvent)
Hazard class	4.1
UN number	UN3175
Packing group	II
Marine pollutant	•

Additional information:

Special provisions 16, 56



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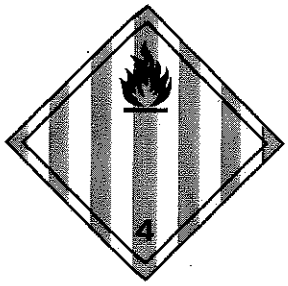

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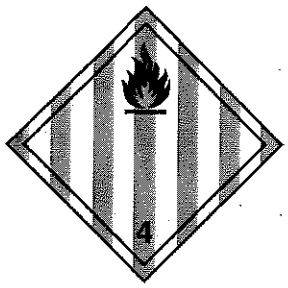

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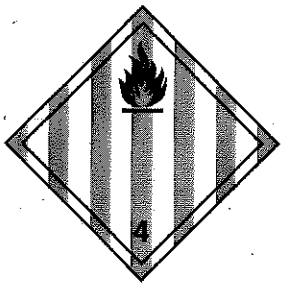

TDG

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA (Superfund) reportable quantity (lbs)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

Drug Enforcement Agency (DEA) Not controlled

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification B3 - Flammable/Combustible
D2B - Other Toxic Effects-TOXIC

WHMIS labeling

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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 - California Hazardous Substances (Director's): Listed substance

Stoddard solvent (CAS 8052-41-3) Listed.

US - Massachusetts RTK - Substance: Listed substance

Stoddard solvent (CAS 8052-41-3) Listed.

US - New Jersey RTK - Substances: Listed substance

Stoddard solvent (CAS 8052-41-3) Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Stoddard solvent (CAS 8052-41-3) Listed.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings
Health: 2*
Flammability: 3
Physical hazard: 0

NFPA ratings
Health: 2
Flammability: 3
Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.

Issue date 11-02-2010

This data sheet contains changes from the previous version in section(s):
First Aid Measures: Inhalation
First Aid Measures: Notes to physician
Physical & Chemical Properties: Appearance
Physical & Chemical Properties: Color