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Oil Medium  
Prod # LM363



Ferro Corporation  
Performance Pigments & Colors  
251 West Wylie Ave.  
Washington, PA 15301 USA

**Emergency telephone number**  
CHEMTREC: 1-800-424-9300  
CHEMTREC (outside U.S.): 1-703-527-3887  
Phone Number: 1-724-223-5900

**MATERIAL SAFETY DATA SHEET**

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**Product Name:** GSMM Medium 1420 **Date of Preparation:** 08/26/2010  
BKT33LB  
**Chemical Family:** Medium  
**CAS-No.:** Mixture  
**Product Code:** 1134793

**2. HAZARDS IDENTIFICATION**

**Emergency Overview**

**Warning**

Combustible liquid. Vapors may travel to a source and flash back. May cause respiratory tract, eye and skin irritation.

		<b>HMIS</b>	<b>NFPA 704</b>
<b>Color:</b>	Amber	2	2
<b>Physical state:</b>	Liquid	2	2
<b>Odor:</b>	Pine like	0	0

**Potential Health Effects**

**Eye contact:** Moderately irritating to the eyes.  
**Skin contact:** Moderately irritating to the skin.  
**Inhalation:** Over-exposure by inhalation may cause respiratory irritation.  
**Ingestion:** May irritate digestive tract.  
**Chronic toxicity:** Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Components</b>	<b>CAS Number</b>	<b>Weight %</b>
Diethylene glycol monobutyl ether	112-34-5	40 - 50%
Diethylene glycol monoethyl ether	111-77-3	20 - 30%
Solvent naphtha	64742-88-7	10 - 20%
Pine oil	8002-09-3	1 - 5%

**4. FIRST AID MEASURES**

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops.  
**Skin contact:** Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist call a physician.  
**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.  
**Ingestion:** Drink plenty of water. Do not induce vomiting. Consult a physician if necessary.

Notes to physician: Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Flash point (°C): 46 ( 114°F) Method: Estimated

**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus (pressure-demand, NIOSH approved or equivalent) and full protective gear

**Unusual hazards:** Combustible material. Vapor may travel considerable distance to source of ignition and flash back. Flammable. Vapours may form explosive mixture with air. Vapors are heavier than air and may spread along floors.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Combustible material. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Flammable liquid. Evacuate area of all unnecessary personnel.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up:** Wear personal protective equipment. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Shovel into suitable container for disposal. Dispose of promptly. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

**Handling:**  
Do not take internally. Wash thoroughly after handling.

**Storage:**  
Keep in a dry, cool and well-ventilated place

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits**  
Minimize exposure in accordance with good hygiene practice.

**Engineering measures:** Provide appropriate exhaust ventilation at machinery and at places where dust or fumes can be generated.

**Eye protection:** Safety glasses with side-shields

**Skin and body protection:** Lightweight protective clothing.

**Hand protection:** Impervious gloves.

**Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment. Seek professional advise prior to respirator selection and use. NIOSH-approved respirators should be worn where engineering controls and work practices do not reduce exposure to or below the PEL.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Color:	Amber	Physical state:	Liquid
Odor:	Pine like	Molecular weight:	No data available
Boiling point/range (°C):	No data available	pH:	No data available
Melting point/range (°C):	No data available	Specific gravity (Water =1):	No data available
Bulk density:	7.67 lb/gal	Vapor pressure (mmHg):	No data available
Water solubility:	Partly soluble	VOC content (%)	90 wt. %

## 10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Polymerization	None under normal processing.
Hazardous decomposition products:	None under normal use.
Materials to avoid:	None known.
Conditions to avoid	None known.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Information given is based on data on the components and the toxicology of similar products
Target Organ Effects:	Glycol ether, Central nervous system, blood, liver, kidneys.

Component information, if any, is listed below

### Diethylene glycol monobutyl ether

LD50s and LC50s:	Dermal LD50 (Rabbit) = 2700 mg/kg Oral LD50 (Rat) = 3384 mg/kg
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### Diethylene glycol monoethyl ether

LD50s and LC50s:	Dermal LD50 (Rabbit) = 2500 µL/kg Oral LD50 (Rat) = 4 mL/kg
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### Solvent naphtha

LD50s and LC50s:	Dermal LD50 (Rabbit) = 3000 mg/kg Inhalation LC50 (Rat) = 5.28 mg/L Oral LD50 (Rat) = 5000 mg/kg
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### Pine oil

LD50s and LC50s:	Oral LD50 (Rat) = 3200 mg/kg Dermal LD50 (Rabbit) = 5 g/kg
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## 12. ECOLOGICAL INFORMATION

Aquatic toxicity:	No data is available on the product itself. Information given is based on data on the components and the ecotoxicology of similar products.
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### Diethylene glycol monobutyl ether

Ecotoxicity - Fish Species Data:	96 h LC50 (Lepomis macrochirus) = 1300 mg/L static
Ecotoxicity - Water Flea Data:	24 h EC50 (Daphnia magna) = 2850 mg/L 48 h EC50 (Daphnia magna) = 100 mg/L
Ecotoxicity - Freshwater Algae Data:	96 h EC50 (Desmodesmus subspicatus) = 100 mg/L

### Diethylene glycol monoethyl ether

Ecotoxicity - Fish Species Data:	96 h LC50 (Pimephales promelas) = 5741 mg/L 96 h LC50 (Lepomis macrochirus) = 7500 mg/L 96 h LC50 (Lepomis macrochirus) = 7500 mg/L static
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**Diethylene glycol monobutyl ether**

Ecotoxicity - Water Flea Data:  
48 h EC50 (Daphnia magna) = 500 mg/L  
Ecotoxicity - Freshwater Algae Data:  
72 h EC50 (Desmodesmus subspicatus) = 500 mg/L

**Solvent naphtha**

Ecotoxicity - Fish Species Data:  
96 h LC50 (Pimephales promelas) = 800 mg/L static  
Ecotoxicity - Water Flea Data:  
48 h EC50 (Daphnia magna) = 100 mg/L  
Ecotoxicity - Freshwater Algae Data:  
96 h EC50 (Pseudokirchneriella subcapitata) = 450 mg/L

**Pine oil**

Ecotoxicity - Water Flea Data:  
48 h EC50 (Daphnia magna) = 17 - 28 mg/L Flow through

Persistence and degradability: Not determined

**13. DISPOSAL CONSIDERATIONS**

Waste from residues / unused products: Waste must be disposed of in accordance with federal, state and local environmental control regulations

**14. TRANSPORT INFORMATION**

**DOT (U.S.)**

UNID No: UN1263  
Proper shipping name: Paint related material  
U.S. DOT - Hazard Class: 3  
Packing group: III

Other shipping information Not regulated in containers < 119 gallons.

**TDG (Canada)**

Proper shipping name: Paint related material  
Packing group: III

**15. REGULATORY INFORMATION**

**U.S. Regulations:**

TSCA: Not subject to TSCA 12(b) Export Notification

**SARA 313:**

Components	SARA 313:
Diethylene glycol monobutyl ether (40 - 50%)	1.0 percent de minimis concentration (Chemical Category N230)
Diethylene glycol monoethyl ether (20 - 30%)	1.0 % de minimis concentration

**State Regulations**

This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and California Prop 65 supplier notification requirements. Substances that are subject to notification requirements, if any, are listed below.

Components	State Regulations - NJ; PA
Diethylene glycol monobutyl ether	Listed (NJRTK) Listed (PARTK)
Diethylene glycol monoethyl ether	Listed (PARTK)
Solvent naphtha	Listed (NJRTK)
Pine oil	Listed (NJRTK)

**Canadian WHMIS**

WHMIS hazard class: B3 Combustible liquid, D2B Toxic materials.

**Canadian Ingredient Disclosure List (IDL):**

Components	Canada - WHMIS Ingredient Disclosure:
Diethylene glycol monobutyl ether	1
Diethylene glycol monoethyl ether	1

**International Inventories**

- TSCA 8(b): Listed or exempt.
- Canadian DSL/NDSL list: All ingredient(s) are listed on the DSL or NDSL
- EC-No. Listed or exempt.
- Philippines (PICCS): Listed.
- Japan (ENCS): One or more ingredient(s) are not on the ENCS list.
- Korea (KECL): Listed.
- China (IECS): Listed.
- Australia (AICS): Listed.
- New Zealand (NZIoC): Listed.

**16. OTHER INFORMATION**

**For Industrial Use Only**

Prepared by: Ferro Technical Center

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.

**End of Safety Data Sheet**



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