



# MATERIAL SAFETY DATA SHEET

PRODUCT: Medium  
REVISION NUMBER: 1

REVISION DATE: 01/08/2004  
Date Printed: 01/08/2004

## 1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED BY: Ferro Corporation  
251 West Wylie Avenue  
P.O. Box 519  
Washington, PA 15301  
Prod Info 724-223-5900  
CHEMTREC 800-424-9300

Use the CHEMTREC telephone number only in the event of chemical emergencies.

PREPARED BY: Jeff Miller  
Environmental Engineer

PRODUCT CODE: 1086

PRODUCT TRADE NAME: 1086 MEDIUM

CAS NO: Mixture  
CHEMICAL FAMILY: Medium  
PRODUCT TYPE: Terpene Hydrocarbon

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

This product does not have exposure limit values. Exposure limit values for some of the components are listed below as a guideline for safe use of this product.

### HAZARDOUS COMPONENTS

INGREDIENTS/CAS #	OSHA PEL:	ACGIH TLV:
Pine Oil 8002-09-3	NE	NE

## 3. HAZARDS IDENTIFICATION

PRINCIPLE ROUTES OF EXPOSURE: Inhalation, ingestion and dermal.

The key immediate hazards are:

Harmful if swallowed.  
Combustible Liquid.

Effects from Acute Exposure:

EYE CONTACT : Causes eye irritation.  
SKIN CONTACT: Causes skin irritation.  
INHALATION: Causes lung irritation.

**PRODUCT TRADE NAME: 1086 MEDIUM**

**INGESTION:** Harmful if swallowed

**AGGRAVATED MEDICAL CONDITIONS:**

Respiratory

**Effects from Chronic Exposure:**

**CARCINOGENIC INGREDIENTS:**

None

**OVEREXPOSURE EFFECTS:**

**CONTAINS PINE OIL AND/OR PETROLEUM DISTILLATES:**

Pine oil and/or petroleum distillates may irritate eyes or skin. Inhalation of vapors may cause respiratory irritation. If swallowed, can cause serious health effects such as stomach irritation, decreased breathing and convulsion. Nausea and vomiting may lead to pneumonitis.

## **4. FIRST AID MEASURES**

**INGESTION:** If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

**SKIN:** For skin contact, wash affected areas with plenty of water, and soap if available, for several minutes. Get medical attention if irritation occurs.

**INHALATION:** If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

**EYES:** For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention if irritation develops.

**NOTES TO PHYSICIAN:** None specified.

## **5. FIRE FIGHTING MEASURES**

**OSHA FLAMMABILITY CLASS:** COMBUSTIBLE

**FLASH POINT (°F):** 180

**Lower Explosive Limit:** Not Available

**Upper Explosive Limit:** Not Available

**EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Foam or Water Mist

**PRODUCT TRADE NAME: 1086 MEDIUM**

**FIRE FIGHTING PROCEDURES:** Fire-Fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.

Use water spray to cool nearby containers and structures exposed to fire.

**UNUSUAL HAZARDS:** Decomposition and combustion products may be toxic.

## 6. ACCIDENTAL RELEASE MEASURES

**SPILL PROCEDURES:** Wear appropriate protective equipment. Avoid the generation of dust. Collect (Vacuum, Absorb, or Shovel) material and place in closable container(s) for disposal.

## 7. HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Avoid contact with eyes, skin and clothing.

**NOTES ON HANDLING INFORMATION:** Minimize dust generation during handling. Use adequate ventilation.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**VENTILATION:** Adequate ventilation should be provided to keep concentrations below acceptable Exposure Limits. Discharge from the ventilation system should comply with the applicable air pollution control regulations.

**EYE PROTECTION:** Wear safety glasses or goggles to protect against exposure.

**PROTECTIVE GLOVES:** Use gloves as a standard industrial handling procedure.

**RESPIRATORY PROTECTION:** Appropriate respiratory protection is required when exposure to airborne contaminant is likely to exceed acceptable limits. Respirators should be selected and used in accordance with OSHA Subpart I (29 CFR 1910.134) and manufacturer's recommendations.

**OTHER PERSONAL PROTECTIVE EQUIPMENT:** None specified.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Amber Liquid

**BOILING POINT:** Not Available

**VAPOR DENSITY (AIR=1):** Heavier than air

**EVAP. RATE(BUTYL ACETATE=1):** Slower than n-Butyl Acetate

**VOC, Wt.% (EPA METH.24):** 89

**BULK DENSITY:** 7.8 lb/gal

**PRODUCT TRADE NAME: 1086 MEDIUM**

**SOLUBILITY (in water): Insoluble**

## 10. STABILITY AND REACTIVITY

**STABILITY DATA: STABLE**

**POLYMERIZATION: WILL NOT OCCUR**

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide and depending on conditions, some hydrocarbon fragments may also be formed.

**INCOMPATIBILITY**

**(MATERIALS TO AVOID):** None known.

**CONDITIONS/HAZARDS TO AVOID:** None known.

## 11. TOXICOLOGICAL INFORMATION

No Toxicological data known.

## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** No data at this time

**CHEMICAL FATE INFORMATION:** No data at this time.

**PERSISTENCE/DEGRADABILITY:** No data at this time.

**APPRAISAL:** No data at this time.

**MOBILITY:** No data at this time.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL OF WASTE METHOD:** Dispose in accordance with Federal, State and Local regulations.

## 14. TRANSPORT INFORMATION

**DOT Shipping Name:** COMBUSTIBLE LIQUID N.O.S.

**DOT HAZARD CLASS:** COMBUSTIBLE LIQUID. Not regulated in non-bulk packaging (<119 gallons per container).

**DOT LABEL(S):** NONE

**UN/NA NUMBER:** NA1993

**PACKING GROUP:** PG III

## 15. REGULATORY INFORMATION

**SARA SECTION 302:** None Found

**SARA (311, 312) HAZARD CLASS:** ACUTE HEALTH HAZARD  
CHRONIC HEALTH HAZARD  
FIRE HAZARD

**PRODUCT TRADE NAME: 1086 MEDIUM**

**SARA 313 Title III Toxic Chemical List:**

The following chemicals are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

This product does not contain a chemical which is listed in Section 313 at or above 'de minimis' concentrations.

TSCA Inventory Status: This product (and/or all of its components) is in compliance with the U.S. EPA Toxic Substance Control Act, TSCA, (15 U.S.C. 2604).

## 16. OTHER INFORMATION

Revisions: The Format has been changed to meet the requirements of the new ANSI Standard Z400.1.

**LABEL INFORMATION:**

**WARNING!**

Combustible liquid.

Skin, eye, and respiratory irritant.

Harmful if swallowed.

Keep away from heat, sparks and flame.

Avoid contact with eyes, skin and clothing.

Avoid breathing mist or vapor.

Keep away from food products.

Wash thoroughly after handling and before eating, drinking or using cosmetic or tobacco products or toilet facilities.

Use with adequate ventilation.

Keep container closed when not in use.

**FIRST AID:** If inhaled, remove to fresh air. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water. Remove contaminated clothing. Get medical attention.

**IN CASE OF FIRE:** Use water, dry chemical or carbon dioxide.

**IN CASE OF SPILL:** Soak up with inert absorbent and dispose in accordance with federal, state and local regulations.

**FOR INDUSTRIAL USE ONLY.**

**DEFINITIONS AND ABBREVIATIONS :**

ACGIH = American Conference of Governmental Industrial Hygienists

C (CEIL) = The concentration that shall not be exceeded during any part of the working exposure.

CAS # = Chemical Abstracts Service Registry Number

EPA = Environmental Protection Agency

IARC = International Agency for Research on Cancer

NIOSH = National Institute for Occupational Safety and Health

NTP = National Toxicology Program

OSHA = Occupational Safety and Health Administration

PEL = Permissible Exposure Limit

SARA = Superfund Amendments and Reauthorization Act

STEL = Short Term Exposure Limit. Usually a 15 minute time weighted average exposure.

TLV = Threshold Limit Values

TSCA = Toxic Substance Control Act

TWA = Time Weighted Average. Exposure concentration for a normal 8 hour day or 40 hour week.

VOC = Volatile Organic Content

**PRODUCT TRADE NAME: 1086 MEDIUM**

**DISCLAIMER:** The information contained in this Material Safety Data Sheet (MSDS) has 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 guarantee 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 the regulatory compliance obligations under any applicable federal or state laws.

**\*\*\* END OF MSDS \*\*\***