



JJM: JOL: TGG: RF

Conoco Chemicals Company
A Division of Conoco Inc.
15990 North Barker's Landing Road
P.O. Box 19029
Houston, TX 77224

XF: MSDS Req

January 13, 1984

C. F. Kalmbach
Vice President, Purchasing
E. F. Houghton & Company
Madison and Van Buren Avenues
Valley Forge, PA 19482

Dear Mr. Kalmbach:

As requested a Conoco Chemicals' Material Safety Data Sheet for ALFOL 1012 Alcohol is enclosed. Our records also indicate we sell you ALFOL 20+ Alcohol and an MSDS is also enclosed for this product.

Regarding the enclosed information request on KATHON 886 MW, Conoco Chemicals has no such product.

Sincerely,

Thomas G. Grumbles, C.I.H.
Director, Industrial Hygiene

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Enclosures

VVV 000012726



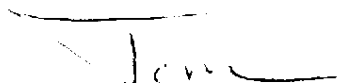
JH: JCL: TGG: RF

XF: _____

Interoffice Communication

To Distribution
From Tom Grumbles
Date January 11, 1984
Subject DRAFT MSDS FOR 610-P AND VRP PLASTICIZER

Enclosed are drafts for the subject products. Please review the appropriate sections as indicated below and return comments to me by February 3.



Thomas G. Grumbles

ajo

Enclosure

Distribution:

Al Sather - Sections 4, 8, 9
John Irvine - Sections 2, 3, 6
Bill Broddle - Section 5
Dr. Drumwright - Section 5
Steve Saborsky - Section 1
Susan Litzau - Legal Aspects

VVV 000012727



Conoco Chemicals Company
P.O. Box 19029
Houston, TX 77224

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

MANUFACTURER'S NAME Conoco Chemicals Company	
ADDRESS P.O. Box 91, Aberdeen, MS 39730	
TRADE NAME Conoco 610-P Plasticizer	
SYNONYMS N-Hexyl N-Octyl, N-Decyl Phthalate	
REGULAR TELEPHONE NO. (601) 369-8111	EMERGENCY TELEPHONE NO. (318) 491-5142

2. HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT	%	HAZARD DATA
Not applicable.		

3. PHYSICAL DATA

BOILING POINT (°F)		SPECIFIC GRAVITY(H ₂ O = 1)	0.973
VAPOR PRESSURE (mm Hg.)	<0.1 @ 100°F	PERCENT VOLATILE BY VOLUME (%)	
VAPOR DENSITY (AIR = 1)		EVAPORATION RATE (_____ = 1)	
SOLUBILITY IN WATER	Negligible	MELTING POINT	
APPEARANCE AND ODOR	Water white to straw yellow liquid, mild hydrocarbon odor.		

4. FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD)	400°F (PM)	AUTOIGNITION TEMPERATURE	
FLAMMABLE LIMITS IN AIR. % BY VOL.	LOWER		UPPER
EXTINGUISHING MEDIA	Carbon dioxide, foam.		
SPECIAL FIRE FIGHTING PROCEDURES	Self-contained breathing apparatus should be worn if fighting fires in a confined space.		
UNUSUAL FIRE AND EXPLOSION HAZARD	VVV 000012728		

5. HEALTH HAZARD INFORMATION

FIRST AID

EYES: Flush with large amounts of water for at least 15 minutes. Seek medical aid.

SKIN: Flush affected area with water. Wash area with mild soap and water. If irritation occurs, seek medical aid.

INHALATION: Remove to fresh air. If breathing has stopped, administer artificial respiration, oxygen, or cardio-pulmonary resuscitation if needed. Seek medical aid.

INGESTION: Do not induce vomiting. Seek medical aid.

NATURE OF HAZARD

EYES: Liquid contact or exposure to high vapor concentrations may result in irritation.

SKIN: Repeated or prolonged skin contact may result in irritation or drying of the skin, progressing to dermatitis.

INHALATION: Due to low volatility, this material is not an inhalation hazard under normal conditions.

INGESTION: Material is relatively nontoxic. Ingestion of small amounts may result in nausea and vomiting.

EFFECTS OF OVEREXPOSURE:

ACUTE OVEREXPOSURE: irritation, Dizziness, Nausea

CHRONIC OVEREXPOSURE: Unknown.

THRESHOLD LIMIT VALUE (TLV) None Established

TOXICITY DATA

SKIN CONTACT:

Rabbit skin irritation: minimal (0.1 on a scale of 1.0-8.0)

EYE CONTACT: Rabbit eye irritation: minimal (4.3 on a scale of 1.0 - 110)

INHALATION: No data available.

VVV 000012729

INGESTION: Rat oral toxicity: no mortality seen at approximately 2 m/kg

SPECIAL PRECAUTIONS:

6. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

Material is chemically stable.

INCOMPATIBILITY

Strong alkaline materials.

HAZARDOUS DECOMPOSITION PRODUCTS

None

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

7. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Contain the spill. Eliminate ignition sources. Material should be picked up with solid sorbent such as sand.

NEUTRALIZING CHEMICALS

WASTE DISPOSAL METHOD

Material can be incinerated under controlled conditions or landfilled according to local, state, and federal regulations.

8. SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS

Local exhaust is recommended for use of material in enclosed spaces or at elevated temperatures.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY (SPECIFY IN DETAIL):

NIOSH-approved organic vapor air-purifying or air-supplied equipment depending on concentration.

EYE:

Chemical goggles or face shield.

GLOVES:

Rubber gloves or other similar impervious material.

OTHER CLOTHING AND EQUIPMENT:

Other impervious clothing (boots, slicker suits) as needed to prevent prolonged skin contact.

VVV 000012730

9. SPECIAL PRECAUTIONS

HAZARD CLASSIFICATION INFORMATION

IMCO HAZARD CLASS AND NUMBER	US DOT CLASSIFICATION Nonhazardous
UN NUMBER	EEC DANGEROUS SUBSTANCE CLASSIFICATION
ADR CLASS NUMBER	EEC SPECIAL RISKS AND SAFETY ADVICE
CAS NUMBER 84-75-3 84-77-5 117-84-0	

TRANSPORTATION AND STORAGE

USUAL SHIPPING CONTAINERS Tank Cars Tank Trucks Drums	ELECTROSTATIC ACCUMULATION HAZARD
	STORAGE/TRANSPORT PRESSURE
STORAGE TRANSPORT TEMPERATURE	LOADING/UNLOADING TEMPERATURE
	VISCOSITY AT LOADING/ UNLOADING TEMPERATURE

HANDLING AND STORAGE MATERIALS AND COATINGS

SUITABLE	UNSUITABLE

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VVV 000012731



Conoco Chemicals Company
P.O. Box 19029
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MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

MANUFACTURER'S NAME Conoco Chemicals Company

ADDRESS P.O. Box 91, Aberdeen, MS 39730

TRADE NAME Conoco VRP Plasticizer

SYNONYMS Dialkyl Phthalates

REGULAR TELEPHONE NO. (601) 369-8111

EMERGENCY TELEPHONE NO. (318) 491-5142

2. HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT	%	HAZARD DATA
Not applicable.		

3. PHYSICAL DATA

BOILING POINT (°F)	Approximately 600°F IBP	SPECIFIC GRAVITY (H₂O = 1)	
VAPOR PRESSURE (mm Hg.)	<0.1 @ 100°F	PERCENT VOLATILE BY VOLUME (%)	
VAPOR DENSITY (AIR = 1)		EVAPORATION RATE (_____ = 1)	
SOLUBILITY IN WATER	Negligible	MELTING POINT	
APPEARANCE AND ODOR	Water white to straw yellow liquid, mild hydrocarbon odor.		

4. FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD)	>400°F (PM)		AUTOIGNITION TEMPERATURE		
FLAMMABLE LIMITS IN AIR. % BY VOL.		LOWER		UPPER	
EXTINGUISHING MEDIA	Carbon dioxide, foam.				
SPECIAL FIRE FIGHTING PROCEDURES	Self-contained breathing apparatus should be worn if fighting fires in a confined space.				
UNUSUAL FIRE AND EXPLOSION HAZARD	VVV 000012732				

5. HEALTH HAZARD INFORMATION

FIRST AID

EYES: Flush with large amounts of water for at least 15 minutes. Seek medical aid.

SKIN: Flush affected area with water. Wash area with mild soap and water. If irritation occurs, seek medical aid.

INHALATION: Remove to fresh air. If breathing has stopped, administer artificial respiration, oxygen, or cardio-pulmonary resuscitation if needed. Seek medical aid.

INGESTION: Do not induce vomiting. Seek medical aid.

NATURE OF HAZARD

EYES: Liquid contact or exposure to high vapor concentrations may result in irritation.

SKIN: Repeated or prolonged skin contact may result in irritation or drying of the skin, progressing to dermatitis.

INHALATION: Due to low volatility, this material is not an inhalation hazard under normal conditions.

INGESTION: Material is relatively nontoxic. Ingestion of small amounts may result in nausea and vomiting.

EFFECTS OF OVEREXPOSURE:

ACUTE OVEREXPOSURE: Irritation, Dizziness, Nausea

CHRONIC OVEREXPOSURE: Unknown.

THRESHOLD LIMIT VALUE (TLV) None Established

TOXICITY DATA

SKIN CONTACT: No information is available on this specific product. However, testing data for similar products indicates relatively low toxicity by most routes of administration.
Rabbit skin irritation: minimal

EYE CONTACT: Rabbit eye irritation: minimal

INHALATION: No data available.

VVV 000012733

INGESTION: Rat oral toxicity: no mortality seen at approximately 30 g/kg.

SPECIAL PRECAUTIONS:

6. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

Material is chemically stable.

INCOMPATIBILITY

Strong alkaline materials.

HAZARDOUS DECOMPOSITION PRODUCTS

None

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

7. SPILL OR LEAK PROCEDURES

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EYE:

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GLOVES:

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OTHER CLOTHING AND EQUIPMENT:

Other impervious clothing (boots, slicker suits) as needed to prevent prolonged skin contact.

VVV 000012734

9. SPECIAL PRECAUTIONS

HAZARD CLASSIFICATION INFORMATION

IMCO HAZARD CLASS AND NUMBER	US DOT CLASSIFICATION Nonhazardous
UN NUMBER	EEC DANGEROUS SUBSTANCE CLASSIFICATION
ADR CLASS NUMBER	EEC SPECIAL RISKS AND SAFETY ADVICE
CAS NUMBER	

TRANSPORTATION AND STORAGE

USUAL SHIPPING CONTAINERS Tank Cars Tank Trucks Drums	ELECTROSTATIC ACCUMULATION HAZARD
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VVV 000012735