



JH: JCL: TGG: RF

XF: MSDS GR

Interoffice Communication

To Chuck Glover

From Tom Grumbles

Date March 13, 1984

Subject PRINTING OF MATERIAL SAFETY DATA SHEETS

Please print 100 copies of each of the attached MSDSs for 610-P Plasticizer and VRP Plasticizer.

Thomas G. Grumbles

ajo

Attachment

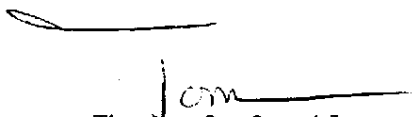
VVV 000012463



Interoffice Communication

To Distribution
From Tom Grumbles
Date February 9, 1984
Subject FINAL DRAFT MSDSs FOR 610-P AND VRP PLASTICIZER

Enclosed are final drafts for the subject products. Please review the appropriate sections as indicated below and return comments to me by February 24.



Thomas G. Grumbles

ajo

Enclosures

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 000012464



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)	Approx. 350 IBP	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. VVV 000012465		
SPECIAL FIRE FIGHTING PROCEDURES	Self-contained breathing apparatus should be worn if fighting fires in a confined space.		
UNUSUAL FIRE AND EXPLOSION HAZARD			

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 (Irritation index of <1.0 on a scale of 1.0-8.0)

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

INHALATION: No data available.

VVV 000012466

INGESTION: Rat oral toxicity: no mortality seen at a dose of approx. 32 ml/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.

VVV 000012467

OTHER CLOTHING AND EQUIPMENT:

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

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

THE ABOVE DATA IS BASED ON TESTS AND EXPERIENCE WHICH CONOCO BELIEVES RELIABLE AND ARE SUPPLIED FOR INFORMATIONAL PURPOSES ONLY. CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM THE USE OF THE ABOVE DATA AND NOTHING CONTAINED THEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE PRODUCT DESCRIBED, OR THEIR USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

VVV 000012468



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P.O. Box 19029
Houston, TX 77224

MATERIAL SAFETY DATA SHEET

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TRADE NAME Conoco VRP Plasticizer	
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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 (H ₂ O = 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. VVV 000012469		
SPECIAL FIRE FIGHTING PROCEDURES	Self-contained breathing apparatus should be worn if fighting fires in a confined space.		
UNUSUAL FIRE AND EXPLOSION HAZARD			

5. HEALTH HAZARD INFORMATION

FIRST AID

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

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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. See Below
Rabbit skin irritation: minimal

EYE CONTACT: Rabbit eye irritation: minimal

VVV 000012470

INHALATION: No data available.

INGESTION: Rat oral toxicity: no mortality seen at a dose of approx. 30 g/kg.

SPECIAL PRECAUTIONS:

6. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

Material is chemically stable.

INCOMPATIBILITY

Strong alkaline materials.

HAZARDOUS DECOMPOSITION PRODUCTS

None

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RESPIRATORY (SPECIFY IN DETAIL):

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EYE:

Chemical goggles or face shield.

GLOVES:

Rubber gloves or other similar impervious material.

VVV 000012471

OTHER CLOTHING AND EQUIPMENT:

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

9. SPECIAL PRECAUTIONS

HAZARD CLASSIFICATION INFORMATION

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VVV 000012472