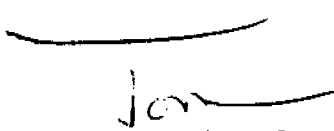


*Reader
JMS*

Interoffice Communication

To Distribution
From Tom Grumbles
Date December 17, 1981
Subject MSDS FOR LIGHT AROMATIC DISTILLATE

Enclosed for your review is the final draft of the MSDS for LAD. If you have further comments or revisions on this sheet, please return to me by January 8, 1982.


Thomas G. Grumbles

ajo

Enclosure

Distribution:

Sid Pitts - LCCP
Dr. Drumwright - Ponca City
Susan Litzau - Houston
Michele Malloy - Houston
Bill Groves - Ponca City
Chuck Muth - Ponca City
Clint Bennett - Houston



Conoco Chemicals
5 Greenway Plaza East
P.O. Box 2197
Houston, Texas 77001

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

MANUFACTURER'S NAME Conoco Chemicals Company	
ADDRESS	P.O. Box 727, Westlake, LA 70669
TRADE NAME	Light Aromatic Distillate
SYNONYMS	Dripolenes
REGULAR TELEPHONE NO. 318/491-5493	EMERGENCY TELEPHONE NO. 318/491-5070

2. HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT	%	HAZARD DATA
Benzene	40-50	
Dicyclopentadienes	20-30	

3. PHYSICAL DATA

BOILING POINT (°F)	120-400	SPECIFIC GRAVITY (H ₂ O = 1)	0.86
VAPOR PRESSURE (mm Hg.)	5.4 psia (@ 100°F)	PERCENT VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR = 1)	2.7	EVAPORATION RATE (_____ = 1)	
SOLUBILITY IN WATER	Negligible	MELTING POINT	
APPEARANCE AND ODOR	Clear, yellowish liquid - strong aromatic odor		

4. FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD)	less than 60°F	AUTOIGNITION TEMPERATURE	None established	
FLAMMABLE LIMITS IN AIR, % BY VOL.	LOWER	1.3	UPPER	7.1
EXTINGUISHING MEDIA	Water spray; foam; dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES	Shut off source of fuel. Co-1 exposed tanks with water spray. Self-contained breathing apparatus should be worn when fighting fires.			
UNUSUAL FIRE AND EXPLOSION HAZARD	This material can release sufficient vapor to form explosive vapors in air. Produces thick black smoke when burning.			

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5. HEALTH HAZARD INFORMATION

FIRST AID

- EYES:** Flush with large amounts of water for at least 15 minutes. Seek medical aid.
- SKIN:** Wash skin thoroughly with non-abrasive soap and water. If irritation persists, seek medical aid.
- INHALATION:** Remove victim to fresh air. If breathing has stopped, administer artificial respiration or oxygen and cardio-pulmonary resuscitation if necessary. Seek medical aid.
- INGESTION:** Do Not Induce Vomiting. If possible administer gastric lavage. Avoid aspiration. Seek medical aid.

NATURE OF HAZARD

- EYES:** Vapors or liquid are irritation to the eyes.
- SKIN:** Repeated or prolonged skin contact may cause defatting and lead to dermatitis. Percutaneous absorption may occur.
- INHALATION:** Irritation to nose and upper respiratory tract. May cause CNS depression and reversible effects on liver and kidneys.
- INGESTION:** Systemic effects may occur.

EFFECTS OF OVEREXPOSURE:

- ACUTE OVEREXPOSURE:** Dizziness, nausea; vomiting; anesthesia leading to unconsciousness and coma.
- CHRONIC OVEREXPOSURE:** Unknown. Contains benzene which is a suspect leukemogen.

THRESHOLD LIMIT VALUE (TLV)

None established. Based on the benzene content a value of 10 ppm for an eight hour TWA is recommended.

TOXICITY DATA

- SKIN CONTACT:** No specific data available
- EYE CONTACT:** No specific data available
- INHALATION:** No specific data available
- INGESTION:** No specific data available

SPECIAL PRECAUTIONS:

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6. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

High temperatures

INCOMPATIBILITY

Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS

CO, CO₂

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

7. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Evacuate the area and remove all sources of ignition. Avoid inhalation of vapors. Increase ventilation if spilled in an enclosed area. Vacuum large amounts. Smaller amounts may be absorbed and picked up mechanically.

NEUTRALIZING CHEMICALS

WASTE DISPOSAL METHOD

Incinerate under controlled conditions in accordance with local, state or federal regulations.

8. SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS

Mechanical ventilation when in use. Local exhaust wherever possible.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY (SPECIFY IN DETAIL):

Organic vapor air purifying cartridge respirator or air supplied equipment dependent on concentration.

EYE: Chemical goggles and face shield.

GLOVES: Butyl rubber or other impervious material when handling liquid.

OTHER CLOTHING AND EQUIPMENT:

Other impervious clothing as needed to avoid skin contact.

9. SPECIAL PRECAUTIONS

HAZARD CLASSIFICATION INFORMATION

IMCO HAZARD CLASS AND NUMBER 3.1	US DOT CLASSIFICATION Flammable liquid
UN NUMBER 1993	EEC DANGEROUS SUBSTANCE CLASSIFICATION
ADR CLASS NUMBER	EEC SPECIAL RISKS AND SAFETY ADVICE
CAS NUMBER 64742-82-2	HAZARD WASTE NO. U019

TRANSPORTATION AND STORAGE

USUAL SHIPPING CONTAINERS Tank Cars DOT 111A-100	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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12/17/81

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Interoffice Communication

Recover

To Mike Marshall

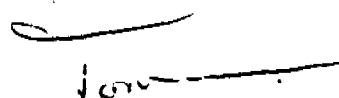
From Tom Grumbles

Date December 16, 1981

Subject VCM EXPOSURES TO PERSONNEL HANDLING CONOCO PVC RESIN

Extensive personnel monitoring has been done on employees handling PVC resins in our plant at Aberdeen. After monitoring from 1974 to 1978 the monitoring results for these workers were analyzed statistically. The results of this analysis showed that assuming a normal distribution, even two standard deviations from the average was less than 0.5 ppm.

Please let me know if you need further information concerning this issue.


Thomas G. Grumbles

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