

DU PONT
Material Safety Data Sheet

Page 1

MATERIAL IDENTIFICATION

DuPONT OIL BRONZE LIQUID DYE

GS269

MSDS NUMBER : 1638PC
CORPORATE NUMBER : DU000615

Revision Date : 04-Nov-90
Date Printed : 28-Nov-90

MANUFACTURER/DISTRIBUTOR
Du Pont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS
PRODUCT INFORMATION : 1-(800)441-7515
TRANSPORT EMERGENCY : 1-(800)424-9300
MEDICAL EMERGENCY : 1-(800)441-3637

CHEMICAL FAMILY : AZO DYE MIXTURE

TRADE NAMES / SYNONYMS
OIL BRONZE LIQUID
BRONZE LIQUID

DU PONT REGISTRY NUMBER: DP69-0-0
TSCA INVENTORY STATUS : Reported/Included
NPCA-HMIS RATINGS : Health: 1 Flammability: 3 Reactivity: 1
Personal Protection rating to be supplied by
user depending on use conditions.

COMPONENTS

<u>Material</u>	<u>CAS Number</u>	<u>%</u>
*XYLENE	1330-20-7	40
*(ETHYLBENZENE)	100-41-4	7.6
(BENZENE)	71-43-2	<.04
1,3-BENZENEDIOL, 2,4-BIS[(ALKYLPHENYL)AZO]-	29190-28-1	33
(C.I.SOLVENT YELLOW)	65087-00-5	
	68310-04-3	
2-NAPHTHALENOL[(PHENYLAZO)PHENYL]-AZO ALKYL	71819-51-7	27
DERIVATIVES (C.I.SOLVENT RED 164)		

* Regulated as a toxic chemical under section 313 of
Title III of the Superfund Amendments and Reauthorization
Act of 1986 and 40 CFR part 372.

SAL 000009813

HEALTH HAZARD INFORMATION

ANIMAL DATA:

OIL BRONZE LIQUID DYE

Oral LD50: > 5,000 mg/kg in rats

XYLENE (mixed isomers)

Inhalation 4 hour LC50: 6,700 ppm in rats

Skin Absorption LD50: 4,320 mg/kg in rabbits

The product ingredients are moderate to severe skin and eye irritants in animals. Animal effects attributed to xylene include narcosis caused by skin absorption. Toxicity described for xylene from exposure by inhalation include upper respiratory irritation; central nervous system and behavioral effects; decreased weight gain; hearing loss; and effects on the liver, kidneys, heart, spleen, lungs, bone marrow, and blood. Central nervous system effects; decreased body weights; and liver effects were seen in animals exposed by ingestion to xylene. Tests on xylene in animals demonstrate no carcinogenic activity. While one dye component did produce genetic damage in bacterial cell cultures, xylene does not produce heritable genetic damage in animals or genetic damage in bacterial or mammalian cell cultures. Although abnormal sperm were observed after an intraperitoneal injection in rats, xylene did not produce reproductive effects; developmental toxicity was observed but only at concentrations that were maternally toxic.

HUMAN HEALTH EFFECTS OF OVEREXPOSURE BY:

Skin contact with xylene may include drying of the skin with irritation and rash. Skin permeation can occur in amounts capable of producing the effects of systemic toxicity. Eye contact may include eye irritation with discomfort, tearing, or blurring of vision.

Inhalation of xylene may include nonspecific discomfort, such as nausea, headache, or weakness; and temporary nervous system depression with anaesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness. Higher exposures may lead to cardiac stress; anemia and other blood changes; respiratory effects; possible liver and kidney damage; or fatality from gross overexposure. Ingestion of xylene may include gastrointestinal irritation; nonspecific discomfort, such as nausea, headache, or weakness; liver effects and temporary nervous system depression.

Individuals with preexisting diseases of the central

SAL 000009814

FIRST AID

INHALATION

If inhaled, immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Flush skin with water. The dye can be removed with hand cream or hand cleaner. Call a physician.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

NOTES TO PHYSICIAN

Activated charcoal slurry may be administered.
To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly.
Administer 5mL/kg, or 350mL for an average adult.

Gastric lavage may be advisable for significant ingestions.

PROTECTION INFORMATION

GENERALLY APPLICABLE CONTROL MEASURES AND PROCEDURES

Keep away from heat, sparks and flames. Keep container in a cool place. Keep container tightly closed. Ground container when pouring. Use of non-sparking and explosion-proof equipment may be necessary depending on type of operation.

Use ventilation that is adequate to keep airborne concentrations below exposure limits.

Avoid conditions that are likely to generate airborne mists.

SHIPPING INFORMATION
-----DOT

Proper Shipping Name : XYLENE SOLUTION
Hazard Class : FLAMMABLE LIQUID
UN/NA No. : 1307
DOT Labels(s) : FLAMMABLE LIQUID

DOT/IMO

Proper Shipping Name : XYLENE SOLUTION
Hazard Class : FLAMMABLE LIQUID, 3.3
UN No. : 1307
DOT/IMO Label : FLAMMABLE LIQUID
Special Information: PAGE 3158

Shipping Containers

Tank Truck
Steel Drums - DOT 17E

STORAGE CONDITIONS

Store in well ventilated area. Keep container tightly closed. Store in accordance with National Fire Protection Assn regulations.

TITLE III HAZARD CLASSIFICATIONS

Acute : Yes
Chronic : Yes
Fire : Yes
Reactivity : No
Pressure : No

ADDITIONAL INFORMATION AND REFERENCES

CALIFORNIA PROPOSITION 65: This product contains trace quantities (<400 ppm) of benzene, a chemical known to the State of California to cause cancer.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

SAL 000009816

DU PONT
Material Safety Data Sheet

MATERIAL IDENTIFICATION

DuPONT OIL RED B LIQUID

MSDS NUMBER : 1701PC
CORPORATE NUMBER : DU000613

Revision Date : 04-Nov-90
Date Printed : 28-Nov-90

MANUFACTURER/DISTRIBUTOR

Du Pont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS

PRODUCT INFORMATION : 1-(800)441-7515
TRANSPORT EMERGENCY : 1-(800)424-9300
MEDICAL EMERGENCY : 1-(800)441-3637

CHEMICAL FAMILY : DISAZO DYE

TRADE NAMES / SYNONYMS

C. I. SOLVENT RED 164
OIL RED B LIQUID
RED B LIQUID

DU PONT REGISTRY NUMBER: DP364-08-3

TSCA INVENTORY STATUS : Reported/Included

NPCA-HMIS RATINGS : Health: 1 Flammability: 3 Reactivity: 1
Personal Protection rating to be supplied by
user depending on use conditions.

COMPONENTS

Material	CAS Number	%
*XYLENE	1330-20-7	35
(ETHYLBENZENE)	100-41-4	(6.7)
(BENZENE)	71-43-2	(<.035)
2-NAPHTHALENOL[(PHENYLAZO)PHENYL]-AZO ALKYL DERIVATIVES (C.I. SOLVENT RED 164)	71819-51-7	56-61

* Regulated as a toxic chemical under section 313 of
Title III of the Superfund Amendments and Reauthorization
Act of 1986 and 40 CFR part 372.

SAL 000009817

HEALTH HAZARD INFORMATION

ANIMAL DATA:

OIL RED B LIQUID

Oral LD50: > 20.8 g/kg in rats

Skin Absorption LD50: > 10.2 g/kg in rabbits

XYLENE (mixed isomers)

Inhalation 4 hour LC50: 6,700 ppm in rats

The product ingredients contain moderate to severe skin and eye irritants in animals. Animal effects attributed to xylene include narcosis caused by skin absorption. Toxicity described for xylene from exposure by inhalation include upper respiratory irritation; central nervous system and behavioral effects; decreased weight gain; hearing loss; and effects on the liver, kidneys, heart, spleen, lungs, bone marrow, and blood. Central nervous system effects; decreased body weights; and liver effects were seen in animals exposed by ingestion to xylene. Tests on xylene in animals demonstrate no carcinogenic activity. While one dye component did produce genetic damage in bacterial cell cultures, xylene does not produce heritable genetic damage in animals or genetic damage in bacterial or mammalian cell cultures. Although abnormal sperm were observed after an intraperitoneal injection in rats, xylene did not produce reproductive effects; developmental toxicity was observed but only at concentrations that were maternally toxic.

HUMAN HEALTH EFFECTS OF OVEREXPOSURE BY:

Skin contact with xylene may include drying of the skin with irritation and rash. Skin permeation can occur in amounts capable of producing the effects of systemic toxicity. Eye contact may include eye irritation with discomfort, tearing, or blurring of vision.

Inhalation of xylene may include nonspecific discomfort, such as nausea, headache, or weakness; and temporary nervous system depression with anaesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness. Higher exposures may lead to cardiac stress; anemia and other blood changes; respiratory effects; possible liver and kidney damage; or fatality from gross overexposure. Ingestion of xylene may include gastrointestinal irritation; nonspecific discomfort, such as nausea, headache, or weakness; liver effects and temporary nervous system depression.

Individuals with preexisting diseases of the central

FIRST AID

INHALATION

If inhaled, immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Flush skin with water. The dye can be removed with hand cream or hand cleaner. Call a physician.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

NOTES TO PHYSICIAN

Activated charcoal slurry may be administered.
To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly.
Administer 5mL/kg, or 350mL for an average adult.

Gastric lavage may be advisable for significant ingestions.

PROTECTION INFORMATION

GENERALLY APPLICABLE CONTROL MEASURES AND PROCEDURES

Keep away from heat, sparks and flames. Keep container in a cool place. Keep container tightly closed. Ground container when pouring. Use of non-sparking and explosion-proof equipment may be necessary depending on type of operation.

Use ventilation that is adequate to keep airborne concentrations below exposure limits. Avoid conditions that are likely to generate airborne mists.

PERSONAL PROTECTIVE EQUIPMENT**EYE/FACE PROTECTION**

Wear safety glasses or coverall chemical splash goggles.

RESPIRATORS

Where there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

PROTECTIVE CLOTHING

Where there is potential for skin contact have available and wear as appropriate, impervious gloves, apron, pants, and

(SHIPPING INFORMATION - Continued)

Shipping Containers

Tank Truck

Steel Drums - DOT 17E

STORAGE CONDITIONS

Store in well ventilated area. Keep container tightly closed. Store in accordance with National Fire Protection Assn regulations.

TITLE III HAZARD CLASSIFICATIONS

Acute : Yes
Chronic : Yes
Fire : Yes
Reactivity : No
Pressure : No

ADDITIONAL INFORMATION AND REFERENCES

CALIFORNIA PROPOSITION 65: This product contains trace quantities (< 300 ppm) of benzene, a chemical known to the State of California to cause cancer.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : R. V. Daum
Chemicals & Pigments
Wilmington, DE 19898
800-441-9442

Indicates updated section.

End of MSDS

SAL 000009820

Printed 10-19-1990

MATERIAL SAFETY DATA SHEET

Page 1

5120 ADDITIVE

MS: 8-002372

CS 426

1 - GENERAL INFORMATION

CHEMLINK INDUSTRIAL,
A DIVISION OF CHEMLINK, INC.
2 COUNTRY VIEW ROAD
MALVERN, PA 19355-1435

EMERGENCY CONTACT 24HRS
800/424/9300 CHEMTREC
SECONDARY 24HRS TELE NBR
215/640/2200 CHEMLINK

GENERIC NAME
ORGANOSILICONE DEFOAMER
DOT PROPER SHIPPING NAME
NOT REGULATED
DOT HAZARD CLASS
NOT REGULATED

UN/NA NUMBER
N/AP

REVISION 03: 12/15/89

2 - SUMMARY OF HAZARDS

CAUTION

NFPA RATING: HEALTH - 1; FLAMMABILITY - 0; REACTIVITY - 0

PHYSICAL HAZARDS: NONE KNOWN

ACUTE HEALTH EFFECTS: (SHORT-TERM) EYE: DIRET CONTACT MAY CAUSE SLIGHT IRRITATION
SKIN: NO HAZARD IDENTIFIED (SEE CHRONIC HAZARDS)
INHALTION: NO HAZARD IDENTIFIED
INGESTION: NO HAZARD IDENTIFIED

CHRONIC HEALTH EFFECTS: (LONG-TERM) PROLONGED OR REPEATED SKIN EXPOSURE MAY CAUSE
IRRITATION. NO OTHER INFORMATION IS AVAILABLE
ABOUT THE EFFECTS FROM LONG-TERM OR REPEATED
EXPOSURE. AS WITH ANY INDUSTRIAL CHEMICAL, GOOD
HYGIENE SHOULD BE USED TO PREVENT CHRONIC CONTACT
WITH LIQUIDS, MISTS, VAPORS, AND FUMES.

3 - COMPONENTS

COMPONENT NAME	CAS NUMBER
WATER	7732-18-5
POLYPROPYLENE GLYCOL	9016-45-9

INGREDIENTS NOT PRECISELY IDENTIFIED ARE PROPRIETARY
OR NONHAZARDOUS.

TSCA INVENTORY --
ALL INGREDIENTS ARE LISTED.

SARA SECTION 313 INFORMATION --
NO INGREDIENTS ARE REPORTABLE.

CARCINOGENICITY --
NO INGREDIENTS ARE LISTED BY IARC, NTP, OR OSHA.

SAL 000009921

PCTM 5120 ADDITIVE

ID: 8-002372

GS 426

7 - HEALTH HAZARDS (continued)

SKIN IRRITATION

MAY CAUSE SLIGHT IRRITATION UPON PROLONGED EXPOSURE.

INGESTION

NO APPROPRIATE HUMAN OR ANIMAL HEALTH EFFECTS DATA ARE KNOWN TO EXIST.
LARGE AMOUNTS INGESTED MAY CAUSE GASTROINTESTINAL DISCOMFORT.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

NO ADDITIONAL MEDICAL INFORMATION FOUND.

8 - PROTECTIVE EQUIPMENT / CONTROL MEASURES

RESPIRATORY PROTECTION

IF EXCESSIVE MISTS/VAPORS ARE GENERATED USE A NIOSH APPROVED CHEMICAL
CARTRIDGE RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE AND A DUST/MIST
PREFILTER.

EYE PROTECTION

EYE PROTECTION SUCH AS CHEMICAL SPLASH GOGGLES AND/OR FACE SHIELD MUST BE
WORN WHEN POSSIBILITY EXISTS FOR EYE CONTACT DUE TO SPLASHING OR SPRAYING
LIQUID, AIRBORNE PARTICLES, OR VAPOR. CONTACT LENSES SHOULD NOT BE WORN.

SKIN PROTECTION

WEAR IMPERVIOUS RUBBER GLOVES. USE OTHER PROTECTIVE CLOTHING AS NECESSARY TO
PREVENT PROLONGED OR REPEATED CONTACT.

ENGINEERING CONTROLS

USE LOCAL EXHAUST AT POINT OF MIST/VAPOR RELEASE.

OTHER HYGENIC PRACTICES

USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING,
SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING/WASH
THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

OTHER WORK PRACTICES

USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING,
SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING/WASH
THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

9 - EMERGENCY AND FIRST AID

INHALATION

REMOVE TO FRESH AIR IMMEDIATELY. OBTAIN MEDICAL ATTENTION IF BREATHING
DIFFICULTY PERSISTS.

EYE CONTACT

IN CASE OF EYE CONTACT, IMMEDIATELY RINSE WITH CLEAN WATER FOR 20-30
MINUTES. RETRACT EYELIDS OFTEN. OBTAIN EMERGENCY MEDICAL ATTENTION IF
PAIN, BLINKING, TEARS OR REDNESS PERSIST.

SKIN CONTACT

WASH THOROUGHLY WITH SOAP AND WATER

INGESTION

INGESTION UNLIKELY. HOWEVER, IF INGESTED, OBTAIN EMERGENCY MEDICAL
ATTENTION.

EMERGENCY MEDICAL TREATMENT PROCEDURES

NO ADDITIONAL MEDICAL INFORMATION FOUND.

SAL 000009822

Printed 10-19-1990

MATERIAL SAFETY DATA SHEET

Page 5

IPCTM 5120 ADDITIVE
ID: 8-002372

GS426

1. - DISCLAIMERS (continued)

THE INFORMATION IN THIS MSDS WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS.

THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE AND DISPOSAL OF THE PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

THIS MSDS WAS PREPARED AND IS TO BE USED ONLY FOR THIS PRODUCT. IF THE PRODUCT IS USED AS A COMPONENT IN ANOTHER PRODUCT, THIS MSDS INFORMATION MAY NOT BE APPLICABLE.

THIS MSDS HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

SAL 000009823