

MATERIAL SAFETY DATA SHEET

DYPHENE 669C

DISTRIBUTOR : WESTERN RESERVE CHEMICAL
NAME AND : 4837 DARROW RD.
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I. PRODUCT IDENTIFICATION

HMIS HAZARD RATINGS

HEALTH HAZARD 1 FIRE HAZARD 1 REACTIVITY 1
Based on the National Paint & Coatings Association HMIS rating system.

SARA/TITLE III HAZARD CATEGORIES (See Section X)

Immediate (ACUTE) Health: NO Reactive Hazard: NO
Delayed (Chronic) Health: NO Sudden Release of Pressure: NO
Fire Hazard: NO

CHEMICAL NAME: Formaldehyde, polymer with 4-(1,1-dimethyl-ethyl)phenol
4,4'-1(methylethylidene)bis(phenol)

CHEMICAL FORMULA: (C15H16O2;C10H14O;CH2O)x

DOT INFORMATION: This material may be regulated by the DOT because
it could contain a Reportable Quantity (RQ) of a
hazardous substance. Please examine the quantity
per package for the following hazardous substance:
DOT HAZARDOUS SUBSTANCE: RQ100# (Formaldehyde)

II. HEALTH HAZARD INFORMATION

EMERGENCY AND FIRST AID PROCEDURES

EYES:

IMMEDIATELY flush eyes with a directed stream of water for at
least 15 minutes while forcibly holding eyelids apart to ensure
complete irrigation of all eye and lid tissue. IF IRRITATION
OCCURS, GET MEDICAL ATTENTION.

SKIN:

Wash thoroughly with soap and water.

INHALATION:

Remove to fresh air. If breathing is difficult, have trained
person administer oxygen. If respiration stops, give
mouth-to-mouth resuscitation. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Have patient drink several glasses of water, then induce vomiting by having patient tickle back of throat with finger. Keep airway clear. SEEK MEDICAL ATTENTION IMMEDIATELY.

NOTES TO PHYSICIAN:

Treatment is symptomatic and no antidotes are known. Effects of overexposure are related to ingredients.

ROUTES OF EXPOSURE

INHALATION:

Dust or vapors may be irritating to the respiratory tract. See Section VII for additional hazards.

SKIN:

Dust or vapors may be irritating to the skin. Repeated contact with the skin may cause dermatitis in sensitive individuals.

EYE CONTACT:

Dust or vapors may be irritating to the eyes.

INGESTION:

No data available for this material.

EFFECTS OF OVEREXPOSURE

ACUTE:

Dust or vapor may be irritating to the eyes, skin, and respiratory tract. Repeated contact with the skin may cause dermatitis in sensitive individuals.

CHRONIC:

The chronic effects of repeated dust or vapor inhalation are not known. See Section VII.

TOXICOLOGY DATA:

p-tert-Butylphenol

Acute oral LD50	(rat)	2951 mg/kg
Acute dermal LD50	(rabbit)	2288 mg/kg
Acute eye irritation:	(rabbit, 24 hr.)	50 ug/severe
Acute dermal irritation:	(rabbit, 24 hr.)	500 mg/mild

III. IMPORTANT COMPONENTS

CAS NUMBER / NAME

54579441 Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol and 4,4'-(1-methylethylidene)bis-phenol

EXPOSURE LIMITS

PERCENTAGE

PEL:Not Established

VOL

ND

TLV:Not Established

WT

95-98

COMMON NAMES:

Listed On(List Legend Below):

19 23

98544 Phenol, 4-(1,1-dimethylethyl)-
 EXPOSURE LIMITS PERCENTAGE
 PEL:Not Established VOL ND
 TLV:Not Established WT 1-3
 COMMON NAMES:
 p-tert-BUTYLPHENOL
 Listed On(List Legend Below):
 19 23

 50000 Formaldehyde
 EXPOSURE LIMITS PERCENTAGE
 PEL:0.75 ppm TWA VOL ND
 0.5 ppm (action level) WT 0-0.09
 STEL 2 ppm
 TLV:0.3 ppm; 0.37 mg/m3 Ceiling, A2
 COMMON NAMES:
 Listed On(List Legend Below):
 01 02 07 09 11 15 18 21

 All components of this product that are required to be on the TSCA Inventory are listed on the Inventory.

This material is not listed as carcinogen - IARC, NTP, OSHA

LIST LEGEND

1 SARA EXTR HAZ SUB, SECTION 302	2 SARA TOXIC CHEM, SECTION 313
7 NTP "ANTPTD HUMAN CARCINOGENS"	9 IARC GROUP 2A OR 2B CARCINOGEN
11 CA PROP 65 - CARCINOGEN	15 PA SPECIAL & ENV HAZ SUBSTANCE
18 NY HAZARDOUS SUBSTANCES	19 PA REQUIREMENT- 3% OR GREATER
21 NJ SPECIAL HEALTH HAZ SUB	23 NJ REQUIREMENT- 1% OR GREATER

IV. FIRE AND EXPLOSION DATA

FLASH POINT: NA AUTOIGNITION TEMPERATURE: ND
 FLAMMABLE LIMITS IN AIR, % BY VOLUME- UPPER: ND
 LOWER: ND

EXTINGUISHING MEDIA:

Use water, dry chemical, Halon, alcohol foam, or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES:

Do not inhale gases. In fire conditions wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD:

Explosion hazard: Organic dust can be explosive when ideal conditions of concentration, humidity and source are met.

V. SPECIAL PROTECTION

VENTILATION REQUIREMENTS:

General room ventilation plus local exhaust at points of emission to maintain exposure below TLV(s).

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT**RESPIRATORY:**

A NIOSH/MSHA approved respirator, following manufacturer's recommendations, should be used as a precautionary measure where airborne contaminants may occur.

EYE:

Wear safety glasses with side shields or chemical safety goggles (ANSI Z87.1).

GLOVES:

Wear impervious gloves such as neoprene or rubber.

OTHER CLOTHING AND EQUIPMENT:

Eye wash facility and emergency shower should be in close proximity (ANSI Z358.1).

VI. PHYSICAL DATA

BOILING POINT @ 760 mm Hg: NA
FREEZING POINT: NA
VAPOR PRESSURE: NA
SPECIFIC GRAVITY (H₂O=1): 1.08 - 1.10
SOLUBILITY IN H₂O % BY WT: Insoluble
VAPOR DENSITY (Air=1): NA
APPEARANCE AND ODOR: Amber Flake or lump
pH: NA

VII. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY:

Exposure to high temperature and/or moisture causes resin agglomeration.

INCOMPATIBILITY:

None known

HAZARDOUS DECOMPOSITION PRODUCTS:

Combustion can produce carbon dioxide and carbon monoxide. Traces of formaldehyde may be released in the resin curing process. The air concentration will be dictated by curing conditions, room ventilation and production rates. Airborne monitoring should be conducted to accurately determine the level of these substances in the air.

The symptoms of formaldehyde exposure including eye, nose, throat and upper respiratory tract irritation, tearing and nose stuffiness usually are initially experienced at air concentrations in the range of 0.2-1.0 ppm and become more severe above 1 ppm. For exceptionally sensitive individuals, symptoms may appear at far lower concentrations.

In laboratory tests, formaldehyde has been shown to be carcinogenic in rats. There is no conclusive evidence regarding the carcinogenicity of formaldehyde in man. Formaldehyde is listed by NTP as reasonably anticipated to be carcinogenic, and

by IARC as a group 2A carcinogen, OSHA, in its formaldehyde Standard (29 CFR 1910.1048) considers formaldehyde to be a potential carcinogen.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:

Not known to undergo hazardous polymerization.

VIII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS:

Observe good housekeeping practices. Contain material and prevent accumulations of dust.

Store in a cool, dry place to avoid effects of heat and moisture on resin agglomeration. Storage temperatures above 75°F must be avoided.

IX. ENVIRONMENTAL PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Sweep or vacuum spills. To minimize dust, vacuum cleaning is preferred.

WASTE DISPOSAL METHOD:

Dispose of according to federal, state and local government regulations.

X. ADDITIONAL INFORMATION

OSHA Standard 29CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Material Safety Data Sheet available to your employees.

To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section I. If the word "YES" appears next to any category, this product may be reportable by you under the requirements of 40 CFR Part 370. Please consult those regulations for details. State of California Safe Drinking Water and Toxic Enforcement Act Of 1986 (Proposition 65) :

WARNING: This product contains a chemical known to the State Of California to cause cancer.

WARNING LABEL INFORMATION

SIGNAL WORD: CAUTION

STATEMENT OF HAZARDS:

DUST OR VAPORS MAY BE IRRITATING TO SKIN, EYES, AND RESPIRATORY TRACT.

POSSIBLE DUST EXPLOSION IF LARGE QUANTITIES OF DUST ARE DISPERSED IN THE AIR.

REPEATED SKIN CONTACT MAY CAUSE DERMATITIS.

RELEASES FORMALDEHYDE, WHICH MAY CAUSE CANCER. RISK OF CANCER DEPENDS ON DURATION AND LEVEL OF EXPOSURE.

PRECAUTIONARY STATEMENTS:

Do not breathe dust or vapors.

Do not get in eyes, on skin or clothing.

Wear safety glasses with side shields; rubber or neoprene gloves.

Wash thoroughly after handling.

FIRST AID:

IN CASE OF CONTACT:

FOR EYES:

IMMEDIATELY flush eyes with a directed stream of water for at least 15 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

FOR SKIN:

Wash thoroughly with soap and water.

IF INHALED:

Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. GET MEDICAL ATTENTION IMMEDIATELY.

IF SWALLOWED:

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Have patient drink several glasses of water, then induce vomiting by having patient tickle back of throat with finger. Keep airway clear. SEEK MEDICAL ATTENTION IMMEDIATELY.

IN CASE OF:

SPILL OR LEAK:

Use dry pick-up. To minimize dust, vacuum cleaning of spills is preferred.

FIRE:

Use water, dry chemical, Halon, alcohol foam, carbon dioxide. Do not inhale gases. Wear positive pressure self-contained breathing apparatus approved by NIOSH/MSHA.

DISPOSAL:

Dispose of according to government regulations.

HANDLING AND STORAGE:

Use in well ventilated area.

Keep away from heat, sparks, and open flames.

Do not store in unlabeled or mislabeled containers.

Avoid possible dust build up in the manufacturing area.

For product integrity, store in a cool, dry place to avoid resin agglomeration or advancement. Resin will advance at temperatures in excess of 75°F.

INFORMATION REQUIRED BY FEDERAL, STATE OR LOCAL REGULATIONS:

This product contains:

CAS#	NAME
54579441	Formaldehyde, polymer with 4-(1,1-dimethylethyl)

98544 phenol and 4,4'-(1-methylethylidene)bis(phenol)
50000 Phenol, 4-(1,1-dimethylethyl)-
Formaldehyde

HMIS RATING SYSTEM: HEALTH 1 FLAMMABILITY 1 REACTIVITY 1