
"CORIAN" JOINT ADHESIVE, PART A & PART B
COR014 Revised April 7, 2011 Printed April 7, 2011

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

Corian is a registered trademark of DuPont.

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont
1007 Market Street
Wilmington, DE 19808

PHONE NUMBERS

Product Information : 1-(800)441-7515
Transport Emergency : 1-(800)424-9300 (CHEMTREC)
Medical Emergency : 1-(800)441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
Part A Components:		
Synthetic Acrylic Resin		45-65
*Methyl Methacrylate Monomer	80-62-6	35-55
Part B Components:		
Mixture of Benzoate Esters		>90
Diethylene Glycol Dibenzoate	120-55-8	
Dipropylene Glycol Dibenzoate	27138-31-4	
Triethylene Glycol Dibenzoate	120-56-9	
*Benzoyl Peroxide	94-36-0	<3

* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

HAZARDS IDENTIFICATION

Emergency Overview

Skin, eye and upper respiratory tract irritation.
Potential skin sensitization.
Central nervous system effects from inhalation overexposure.
Moderately toxic by ingestion.
Flammable liquid (Part A).

(HAZARDS IDENTIFICATION - Continued)

Potential Health Effects

Inhalation exposure may result in nausea, drowsiness, dizziness, headache and other central nervous system effects. Vapors can irritate eyes and nasal passages. Direct contact with eyes may result in irritation with inflammation of the cornea or conjunctiva. Prolonged or repeated contact with skin may result in skin irritation, contact dermatitis, rash, itching and swelling. The product is moderately toxic by ingestion.

Since this mixture has not been tested as a whole to determine the hazards by all routes of exposure, information is provided for each hazardous component of the mixture to meet requirements of OSHA's Hazard Communication Standard (29 CFR 1910.1200). The effects noted occur from exposure to the pure component unless otherwise noted.

INFORMATION FOR COMPONENTS

Inhalation of Methyl methacrylate may cause irritation of the upper respiratory passages; nonspecific discomfort, such as nausea, headache, or weakness; temporary lung irritation effects with cough, discomfort, difficulty breathing, or shortness of breath. On rare occasions, cases of abnormal kidney function as detected by laboratory tests and temporary changes in blood pressure have been reported.

Skin contact with Methyl methacrylate may cause skin irritation with discomfort or rash; or allergic skin rashes. Evidence from animal tests suggests that skin permeation may occur. Direct contact to Methyl Methacrylate may cause temporary coldness or numbness of the extremities.

Eye contact with Methyl Methacrylate may cause severe eye irritation with discomfort, tearing, or blurring of vision, or possible corneal damage.

In one study, excess colon and rectal cancer was observed in a group of workers employed between 1933-1945 in operations that entailed prolonged, extremely high exposures to the vapor phase of ethyl acrylate and methyl methacrylate monomer, and to volatile by-products of the ethyl acrylate/methyl methacrylate polymerization process. In a follow-up of this study, and in an additional study on workers employed in the same types of operations, but after 1945 and at different plant sites, no increased risk of cancer was observed.

Increased susceptibility to the effects of Methyl methacrylate may be observed in persons with pre-existing disease of the skin or lungs.

(HAZARDS IDENTIFICATION - Continued)

Skin contact with benzoyl peroxide may cause skin irritation with discomfort or rash; or allergic skin rashes. Benzoyl Peroxide may cause skin sensitization in susceptible humans.

Eye contact with Benzoyl Peroxide may cause irritation with discomfort, tearing, or blurring of vision.

Inhalation of Benzoyl Peroxide may cause irritation of the upper respiratory passages, with coughing and discomfort.

Individuals with preexisting diseases of the skin may have increased susceptibility to the toxicity of excessive exposures.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION

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

SKIN CONTACT

In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse.

EYE CONTACT

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

INGESTION

Ingestion is not an expected route of exposure during normal use of the product. If ingested, consult a physician immediately. All cases of ingestion should be referred immediately to a physician or Poison Control Center. Vomiting should be induced only as advised and by the means specified.

HANDLING AND STORAGE

Handling (Personnel)

Do not breathe vapor or mist. Do not get in eyes. Avoid contact with skin. Avoid contact with clothing. Wash thoroughly after handling. Wash contaminated clothing prior to reuse. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

Handling (Physical Aspects)

Use of non-sparking and explosion-proof equipment may be necessary depending on type of operation. Keep away from heat, sparks and flames. Close container after each use.

Storage

Store in a cool, dark place. Store below 70 F (21 C). Store in a well ventilated place. Keep container tightly closed.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use local exhaust ventilation to keep employee exposure to airborne concentrations below recommended exposure limits.

Personal Protective Equipment

Eye/Face : Coverall chemical splash goggles.
Additional : Polyethylene apron.
Protective Gloves : PVA coated rubber or nitrile .

Exposure Guidelines

Applicable Exposure Limits

Methyl Methacrylate Monomer

PEL (OSHA) : 100 ppm, 410 mg/m³, 8 Hr. TWA
TLV (ACGIH) : 50 ppm, 8 Hr. TWA, STEL 100 ppm, A4
Sensitizer
AEL * (DuPont) : None Established

Benzoyl Peroxide

PEL (OSHA) : 5 mg/m³, 8 Hr. TWA
TLV (ACGIH) : 5 mg/m³, 8 Hr. TWA, A4
AEL * (DuPont) : None Established

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Form	: Viscous Liquid (Part A)/ Oily Liquid (Part B)
Odor	: Distinctive methacrylate odor
Boiling Point	: 214 F (101 C) @ 760 mm Hg (for MM Monomer) 644 F (340 C) (for Part B)
Vapor Pressure	: 29 mm Hg @ 68 F (20 C) (for Part A) 1 mm Hg @ 298 F (148 C) (for Part B)
Vapor Density	: 3.46 (Air=1.0) (for MM Monomer) 9.6 (Air=1.0) (for Part B)
% Volatiles	: 50-70 VOL% (for Part A) Not Available (for Part B)
Evaporation Rate	: 3.0 (Butyl Acetate=1.0) (for Part A) Not Available (for Part B)
Solubility in Water	: 1.6 g/L (for Part A) 0.03 g/L (for Part B)
Specific Gravity	: 1.17-1.25 @ 73 F (23 C) (for Part A) 1.02-1.10 @ 73 F (23 C) (for Part B)

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Avoid heat and ignition sources, direct sunlight and contact with oxidizers.

Incompatibility with Other Materials

Part A is incompatible with reducing and oxidizing agents. Generates heat when mixed with oxidizers.

Part B is incompatible with oxidizing materials, strong acids, strong bases, strong alkalies, reducing agents, accelerators.

Decomposition

Combustion products include carbon monoxide, carbon dioxide, smoke, and from Part A, flammable and toxic biphenyl.

Polymerization

Part A will polymerize. Conditions leading to unintentional polymerization include exposure to abnormal temperatures, direct sunlight or oxidizing agents.

TOXICOLOGICAL INFORMATION

Animal Data

There is no toxicity data for the formulated product.

ECOLOGICAL INFORMATION

Ecotoxicological Information

AQUATIC TOXICITY:
Methyl Methacrylate Monomer 96 hour LC50 - Fathead minnows: 150 ppm

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system. Do not incinerate in closed containers.

TRANSPORTATION INFORMATION

Shipping Information

DOT
Proper Shipping Name : Adhesive
Hazard Class : 3
I.D. No. (UN/NA) : UN1133
Packing Group : II
DOT Label(s) : Flammable Liquid

DOT
Special Information : For containers less than one liter
Proper Shipping Name : Consumer Commodity
Hazard Class : ORM-D

REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status : In compliance with TSCA Inventory requirements for commercial purposes.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
Chronic : Yes
Fire : Yes

(REGULATORY INFORMATION - Continued)

Reactivity : Yes
Pressure : No

RCRA

Under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.11).

State Regulations (U.S.)

STATE RIGHT-TO-KNOW

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated.

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1 % OR MORE (0.01% FOR SPECIAL HAZARDOUS SUBSTANCES)- Methyl Methacrylate, Benzoyl Peroxide.

SUBSTANCES ON THE NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.1% FOR SUBSTANCES IDENTIFIED AS CARCINOGENS, MUTAGENS OR TERATOGENS)- Methyl Methacrylate, Benzoyl Peroxide.

OTHER INFORMATION

NFPA, NPCA-HMIS

NPCA-HMIS Rating
Health : Part A: 2
Flammability : Part A: 3
Reactivity : Part A: 1

NPCA-HMIS Rating
Health : Part B: 1
Flammability : Part B: 1
Reactivity : Part B: 1

Additional Information

MEDICAL USE: CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications see DuPont CAUTION Bulletin No. H-50102.

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 : DuPont Surfaces Products

(Continued)

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Indicates updated section.

End of MSDS