

**CONPOL™ 20B additive resin**

Version 2.2

Revision Date 08/12/2011

Ref. 130000019824

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CONPOL™ 20B additive resin
MSDS Number : 130000019824

Manufacturer : DuPont
1007 Market Street
Wilmington, DE 19898

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Potential Health Effects

Processing temperatures that exceed those described in Section 10 (Conditions to Avoid), may evolve fumes irritating the eyes, nose and throat., Exposure may result in reddening, tears and itching of the eyes and soreness in the nose and throat, together with coughing.

Eyes : Resin particles, like other inert materials, are mechanically irritating to eyes.

Inhalation

Flux-calcined diatomaceous earth : May cause respiratory tract irritation.

Quartz : Gross overexposure may cause: Breathing difficulties, Fever, Cough, Lung damage, May be fatal if inhaled in large quantities..

Ingestion : Is not considered a potential route of exposure.

Repeated exposure

Flux-calcined diatomaceous earth : May cause cancer by inhalation. Adverse effects from repeated inhalation may include: Chronic lung disease with alterations in lung function or difficulty breathing



CONPOL™ 20B additive resin

Version 2.2

Revision Date 08/12/2011

Ref. 130000019824

Quartz : DuPont has classified this material as a known human carcinogen. May cause cancer after repeated inhalation of spray or dust. Adverse effects from repeated inhalation may include: Chronic lung disease with alterations in lung function or difficulty breathing

Target Organs
Flux-calcined diatomaceous earth : Lungs Respiratory Tract

Carcinogenicity Material	IARC	NTP	OSHA
Quartz	1	X	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Olefin Copolymer		>80%
Flux-calcined diatomaceous earth	68855-54-9	<20 %
Quartz	14808-60-7	<0.5 %

SECTION 4. FIRST AID MEASURES

Skin contact : The material is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. Cool skin rapidly with cold water after contact with molten material. Do not attempt to remove material from the skin. Obtain medical treatment for thermal burn. Wash contaminated clothing before reuse.

**CONPOL™ 20B additive resin**

Version 2.2

Revision Date 08/12/2011

Ref. 130000019824

Eye contact	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion	: Not a probable route of exposure. However, in case of accidental ingestion, call a physician.

SECTION 5. FIREFIGHTING MEASURES

Flammable Properties	
Flash point	: no data available
Fire and Explosion Hazard	: Material in pellet form may accumulate static charge when poured from one container to another.
Suitable extinguishing media	: Water, Foam, Dry chemical, Carbon dioxide (CO2)
Firefighting Instructions	: Wear self-contained breathing apparatus and protective suit. The solid polymer can only be burned with difficulty. Evacuate personnel and keep upwind of fire. Grounding and elimination of the static charge is recommended.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Spill Cleanup	: Shovel or sweep up.
Accidental Release Measures	: Do not discharge to streams, ponds, lakes or sewers.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel)	: Before using, read the product bulletin.
----------------------	--



CONPOL™ 20B additive resin

Version 2.2

Revision Date 08/12/2011

Ref. 130000019824

Storage : Store in a cool, dry place. Keep container closed to prevent contamination.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Use sufficient ventilation to keep employee exposure below recommended limits. When hot processing this material, use local and/or general exhaust ventilation to maintain the concentration of vapors and fumes below exposure limits. Use static controls. Static charges can cause explosions in solvent and dust laden atmospheres. See Bulletin "Proper Use of Local Exhaust Ventilation During Processing of Plastics".

Personal protective equipment
Respiratory protection : A respiratory protection program that meets country requirements must be followed whenever workplace conditions warrant respirator use. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.
Consult the OSHA respiratory protection information located at 29CFR 1910.134.

Hand protection : Additional protection: Protective gloves

Eye protection : Wear safety glasses with side shields. Wear tightly fitting chemical splash goggles and face shield when possibility exists for eye and face contact due to spattering or splashing of molten material.

Skin and body protection : If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear.

Exposure Guidelines

Exposure Limit Values

CONPOL™ 20B additive resin

Dust (inhalable and respirable fraction)

TLV	(ACGIH)	10 mg/m3
		TWA Inhalable particles.
		3 mg/m3
		TWA Respirable particles.
PEL:	(OSHA)	5 mg/m3
		TWA Respirable fraction.



CONPOL™ 20B additive resin

Version 2.2

Revision Date 08/12/2011

Ref. 130000019824

		Remarks	All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is the same as the inert or nuisance dust limit of Table Z-3.
		15 mg/m3 TWA Total dust. Quartz	
AEL *	(DUPONT)	0.02 mg/m3 Respirable dust.	8 hr. TWA
		0.01 mg/m3 Respirable dust.	12 hr. TWA
	(ACGIH)	0.025 mg/m3 Respirable fraction.	Time Weighted Average (TWA):
TLV	(ACGIH)	0.025 mg/m3 TWA Respirable fraction.	
PEL:	(OSHA)	2.4 millions of particles per cubic foot of air time weighted average	Respirable. Remarks The exposure limit is calculated from the equation, $250/(\%SiO_2+5)$, using a value of 100% SiO ₂ . Lower percentages of SiO ₂ will yield higher exposure limits.
		0.1 mg/m3 time weighted average	Respirable. Remarks The exposure limit is calculated from the equation, $10/(\%SiO_2+2)$, using a value of 100% SiO ₂ . Lower percentages of SiO ₂ will yield higher exposure limits.
		0.3 mg/m3 time weighted average	Total dust. Remarks The exposure limit is calculated from the equation, $30/(\%SiO_2+2)$, using a value of 100% SiO ₂ . Lower values of % SiO ₂ will give higher exposure limits.
Kieselguhr, Soda Ash Flux-Calcined PEL:	(OSHA)	0.8 mg/m3 Remarks	TWA The exposure limit is calculated from the equation, $80/(\%SiO_2)$, using a value of 100% SiO ₂ . Lower values of % SiO ₂ will

**CONPOL™ 20B additive resin**

Version 2.2

Revision Date 08/12/2011

Ref. 130000019824

give higher exposure limits.

PEL: (OSHA) 20 millions of particles per cubic foot of air TWA

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: solid
Color	: clear or pigmented
Odor	: mild, like methacrylic acid
Melting point	: 80 - 100 °C (176 - 212 °F)
Water solubility	: negligible

SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable at normal temperatures and storage conditions.
Conditions to avoid	: Temperature > 325 °C (> 617 °F) Decomposes on heating.
Incompatibility	: Incompatible with oxidizing agents.
Hazardous decomposition products	: Decomposition is a function of both processing temperature and time at that temperature. Decomposition can occur below the recommended processing temperature limit. At temperatures above the "conditions to avoid" temperature, thermal decomposition of the resin becomes rapid. Hazardous decomposition products: Carbon monoxide, Organic acids, Aldehydes, Alcohols, Sodium oxides, silicon oxides, nitrogen oxides (NOx)
Hazardous reactions	: Polymerization will not occur.


CONPOL™ 20B additive resin

Version 2.2

Revision Date 08/12/2011

Ref. 130000019824

SECTION 11. TOXICOLOGICAL INFORMATION

Olefin Copolymer

Oral ALD : > 7,500 mg/kg , rat

Further information : The substance is a polymer and is not expected to produce toxic effects.

Flux-calcined diatomaceous earth

Repeated dose toxicity : Inhalation
human
Target Organs: Lungs, Respiratory Tract
Lung damage, Respiratory tract damage

Carcinogenicity : Causes fibrosis and lung tumours in laboratory animals.
An increased risk of cancer in humans has been shown in workplace-based studies.

Quartz

Dermal : No adverse effects expected.

Oral ALD : > 11,000 mg/kg , rat

Inhalation : human
Effects of breathing high concentration of respirable particles may include:
Breathing difficulties
Cough
Adverse body weight effects
Lung damage

Skin irritation : No skin irritation, animals (unspecified species)

Eye irritation : slight irritation, animals (unspecified species)

Skin sensitization : Did not cause sensitization on laboratory animals., animals (unspecified species)

Repeated dose toxicity : Inhalation
Fluid retention in lungs (pulmonary oedema), lung effects,
Inflammation, Chronic lung disease, Fibrosis

Carcinogenicity : An increased incidence of tumours was observed in laboratory



CONPOL™ 20B additive resin

Version 2.2

Revision Date 08/12/2011

Ref. 130000019824

Mutagenicity	:	<p>animals. An increased risk of cancer in humans has been shown in workplace-based studies.</p> <p>Did not cause genetic damage in cultured bacterial cells. Did not cause genetic damage in animals. Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.</p>
Reproductive toxicity	:	No adverse effects expected.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity
Olefin Copolymer

: The substance is a polymer and is not expected to produce toxic effects.

Additional ecological information : No data is available on the product itself. Toxicity is expected to be low based on insolubility in water.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : Preferred options for disposal are recycling, incineration with energy recovery, and landfill. The high fuel value of this product makes incineration very desirable for material that cannot be recycled. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

**CONPOL™ 20B additive resin**

Version 2.2

Revision Date 08/12/2011

Ref. 130000019824

SECTION 15. REGULATORY INFORMATION

- TSCA Status : In compliance with TSCA Inventory requirements for commercial purposes.
NZ HSNO Status : Exempt
- SARA 313 Regulated Chemical(s) : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- California Prop. 65 : Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known
- PA Right to Know Regulated Chemical(s) : Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Kieselguhr, Soda Ash Flux-Calcined
- NJ Right to Know Regulated Chemical(s) : 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): Kieselguhr, Soda Ash Flux-Calcined

SECTION 16. OTHER INFORMATION

- Restrictions for use : Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications H-50103-3 and DuPont CAUTION Regarding Medical Applications H-50102-3.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



CONPOL™ 20B additive resin

Version 2.2

Revision Date 08/12/2011

Ref. 130000019824

Significant change from previous version is denoted with a double bar.