



Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

78-1009 CORVEL™ WHITE NYLON

Revision date: 08/10/2007

Supplier Rohm and Haas Company
100 Independence Mall West
Philadelphia, PA 19106-2399 United States of America

For non-emergency information contact: 215-592-3000

Emergency telephone number

Spill Emergency 215-592-3000
Health Emergency 215-592-3000
Chemtrec 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Nylon	Not Hazardous	60.0 - 70.0%
Titanium dioxide	13463-67-7	10.0 - 20.0%
Polyamide	Not Hazardous	10.0 - 20.0%
Amorphous silica	7631-86-9	1.0 - 5.0%

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance

Form Fine powder
Colour See Section 1

Hazard Summary

CAUTION!

POWDER MAY FORM EXPLOSIVE MIXTURES WITH AIR.
MAY CAUSE EYE/SKIN IRRITATION.
PROLONGED OR REPEATED OVEREXPOSURE TO
AMORPHOUS SILICA CAN CAUSE PULMONARY
INFLAMMATION AND SUBSEQUENT DEVELOPMENT OF
CHRONIC LUNG DISEASE.
PROLONGED OR REPEATED OVEREXPOSURE TO TITANIUM
DIOXIDE MAY CAUSE LUNG EFFECTS.

Potential Health Effects

Eyes: Like any foreign body, particles can cause mechanical irritation.

Skin: irritation

Inhalation: Inhalation of dust can cause the following:

irritation of nose, throat, and lungs

headache

nausea

dizziness

Primary Routes of Entry: Inhalation
Eye contact
Skin contact

Chronic Exposure: Prolonged or repeated overexposure to amorphous silica can cause pulmonary inflammation and subsequent development of chronic lung disease.

Prolonged or repeated overexposure to titanium dioxide may cause lung effects.

Titanium dioxide	ACGIH	Not classifiable as a human carcinogen.
Titanium dioxide	IARC	Possible carcinogen.
Titanium dioxide	NIOSH	Potentially carcinogenic.
Amorphous silica	IARC	Classification not possible from current data.
Amorphous silica	IARC	Inadequate data.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. Give artificial respiration if breathing has stopped. If unconscious place in recovery position and seek medical advice. Keep patient warm and at rest.

Skin contact: Take off contaminated clothing and shoes immediately. Wash with water and soap as a precaution.

Eye contact: Rinse immediately with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist. Resin particles, like other inert materials, are mechanically irritating to eyes.

Ingestion: Never give anything by mouth to an unconscious person. Drink water as a precaution. If a person vomits when lying on his back, place him in the recovery position. If symptoms persist, call a physician.

5. FIRE-FIGHTING MEASURES

Flash point	not applicable
Thermal decomposition	During a fire, irritating and highly toxic gases and/or fumes may be generated during combustion or decomposition., Thermal decomposition may yield the following:., Carbon oxides
Suitable extinguishing media:	Dry powder Foam Sand

Specific hazards during fire fighting: Dusts at sufficient concentrations can form explosive mixtures with air. DO NOT use a solid stream of water. A solid stream of water directed at this material may create a potentially explosive airborne dust mixture.

Special protective equipment for fire-fighters: Wear full protective clothing and self-contained breathing apparatus.

Further information: Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing dust.

Methods for cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Clean up promptly by sweeping or vacuum.

Do not create a powder cloud by using a brush or compressed air.

No sparking tools should be used.

Remove all sources of ignition.

Additional advice: See SECTION 13, Disposal Considerations, for information regarding the disposal of contained spills.

Use mechanical handling equipment.

7. HANDLING AND STORAGE

Handling

For personal protection see section 8. No special handling advice required.

Advice on protection against fire and explosion: Avoid formation of dust and aerosols. During processing, dust may form explosive mixture in air.

Storage

Storage conditions: Keep container tightly closed in a dry and well-ventilated place. No special storage conditions required.

Storage period: 24 Months

For product stored in clean, dry conditions at less than 80 °F expected shelf life is at least 24 Months from receipt date

Other data: No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value
Titanium dioxide	Rohm and Haas	TWA Respirable.	2 mg/m ³
	Rohm and Haas	STEL Respirable.	10 mg/m ³
	ACGIH	TWA	10 mg/m ³
	OSHA_TRANS	PEL Total dust.	15 mg/m ³

Z3	Respirable fraction.	
Z3	Total dust.	
Z1A	TWA Total dust.	10 mg/m3

Component	Regulation	Type of listing	Value
Amorphous silica	Rohm and Haas	TWA Respirable.	2 mg/m3
	Rohm and Haas	TWA Total	6 mg/m3
	Rohm and Haas	TWA Respirable fume	0.2 mg/m3
	Rohm and Haas	STEL Respirable.	0.6 mg/m3
	NIOSH/GUIDE	REL	6 mg/m3
	Z3	TWA	0.8 mg/m3

Eye protection: Use chemical splash goggles (ANSI Z87.1 or approved equivalent).

Hand protection: For prolonged or repeated contact use protective gloves.

Respiratory protection: None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. When dusty conditions are encountered, wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust.

Protective measures: No special protective equipment required. Do not breathe dust.

Engineering measures: Use explosion-proof local exhaust ventilation with a minimum capture velocity of 100 ft/min (0.5 m/sec) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Fine powder
Colour	See Section 1
pH	not applicable
Flash point	not applicable
Lower explosion limit - Dust.	30 - 70 g/m3
Density	1.03 g/cm3
Percent volatility	< 1 %

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Hazardous reactions	Stable under recommended storage conditions. Risk of dust explosion.
Conditions to avoid	Static discharge
Materials to avoid	Incompatible with strong acids and oxidizing agents.
Hazardous decomposition products	Stable under recommended storage conditions.,
polymerization	Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

No toxicity data are available for this material.

Skin irritation	Powder can cause localised skin irritation in folds of the skin or under tight clothing.
Eye irritation	Product dust may be irritating to eyes, skin and respiratory system.

Component: **Titanium dioxide**

Acute oral toxicity LD50 rat > 10,000 mg/kg

Component: **Amorphous silica**

Acute oral toxicity LD50 rat > 3,000 mg/kg

Component: **Titanium dioxide**

Acute dermal toxicity LD50 rabbit 10,000 mg/kg

12. ECOLOGICAL INFORMATION

There is no data available for this product.

Titanium dioxide

Ecotoxicity effects

Toxicity to fish	LC50 1,000 mg/l
Toxicity to aquatic invertebrates	EC50 Daphnia magna 100 mg/l

13. DISPOSAL CONSIDERATIONS

Disposal

Waste Classification: When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR

261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).
For disposal, incinerate or landfill at a permitted facility in accordance with local, state, and federal regulations (see 40 CFR Part 268).

Contaminated packaging: Empty containers should be taken for local recycling or waste disposal.

14. TRANSPORT INFORMATION

DOT

Not regulated for transport

IMO/IMDG

Not regulated (Not dangerous for transport)

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

15. REGULATORY INFORMATION

Workplace Classification

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This product is a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA TITLE III: Section 311/312 Categorizations (40CFR370): Acute Health Hazard
Chronic Health Hazard

US. Toxic Substances Control Act (TSCA) All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Pennsylvania

Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

16. OTHER INFORMATION

Hazard Rating

	Health	Fire	Reactivity
HMIS	1*	1	0

HMIS: * = Chronic Effects (See Hazards Identification)

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
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BAC	Butyl acetate
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit (STEL):
TLV	Threshold Limit Value
TWA	Time Weighted Average (TWA):
	Bar denotes a revision from prior MSDS.

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.

Version: 1.0
Print Date: 05/01/2009
Layout 1022622