

MATERIAL SAFETY DATA SHEET

QUICK IDENTIFIER (IN PLANT COMMON NAME)

INFIELD CONDITIONER		WARNING! AVOID BREATHING EXCESSIVE DUST - Excessive exposure by breathing over an extended period of time may result in the development of pulmonary diseases including pneumoconiosis and silicosis. It contains a small amount of crystalline silica which has been determined by IARC and NTP to be a carcinogen. Use with adequate ventilation. Avoid contact with eyes.
HEALTH	2*	
FLAMMABILITY	0	
REACTIVITY	0	
PERSONAL PROTECTION	X	

SECTION 1 - IDENTITY

Company: TEXAS INDUSTRIES, 1341 W. MOCKINGBIRD LANE, DALLAS, TEXAS 75247
 Emergency Telephone Number: 972/647-6700
 Person Responsible for Preparation: NANCY GARNETT
 Date: FEBRUARY 1998
 Common Name (used on label): DIAMOND PRO INFIELD CONDITIONER
 Chemical Family: VITRIFIED SHALE OR CLAY
 Chemical Name: SILICATES
 Formula: DOES NOT APPLY
 Trade Name & Synonyms: DIAMOND PRO, INFIELD CONDITIONER

SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Component	CAS #	% Typical	TLV (Units)	PEL (Units)
Quartz	14808-60-7	20-30	0.1 mg/m ³ *	0.1 mg/m ³ *
Cristobalite	14464-46-1	0-3	0.05 mg/m ³ *	0.05 mg/m ³ *

Diamond Pro Infield Conditioner is made from a mined shale or clay which is heated in a rotary kiln to drive off moisture. This heating process causes the shale or clay to expand. This decreases the density of the material compared to the mined materials. No chemicals are added to the expanded materials. The final chemical structure is primarily noncrystalline silicates.

* Only particle sizes of 10 micrometers or less are considered to be respirable (breathable) and of possible hazard if exposure occurs.

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration (OSHA).
 TLV: Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists (ACGIH).

SECTION 3 - PHYSICAL DATA

Boiling Point Specific Gravity (H₂O = 1)
DOES NOT APPLY 0.8 - 1.6

Vapor Pressure (mm = Hg) Percent Volatile by Volume
DOES NOT APPLY 0%

Vapor Density (Air = 1) Evaporation Rate (n=Butyl Acetate)
DOES NOT APPLY DOES NOT APPLY

Percent Soluble in Water Reactivity in Water
NEGLIGIBLE(<0.1%) WILL NOT EVOLVE FLAMMABLE OR TOXIC GASES

Appearance and Odor
FINE TO COARSE GRANULAR SOLID. DARK RED TO PURPLE IN COLOR. NO ODOR.

SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point Flammable Limits in Air (% by Volume)
WILL NOT IGNITE Lower: DOES NOT APPLY Upper: DOES NOT APPLY

Extinguishing Media Auto Ignition Temperature
DOES NOT APPLY DOES NOT APPLY

Unusual Fire and Explosion Hazards
NONE

Special Fire Fighting Procedures
NONE

SECTION 5 - HEALTH INFORMATION

Signs and Symptoms of Exposure - *Acute Overexposure* - This is exposure of large amounts in a short period of time: INHALATION OF DUST MAY RESULT IN BLOCKAGE OF NASAL AND RESPIRATORY PASSAGES. MAY CAUSE ABRASION OF THE CORNEA.

Signs and Symptoms of Exposure - *Chronic Overexposure* - This is exposure of small to moderate amounts over a long period of time: AS IS TRUE WITH ANY MINERAL PRODUCT, LONG TERM OVEREXPOSURE TO THIS DUST WITHOUT THE USE OF A DUST MASK MAY PRODUCE X-RAY EVIDENCE OF DUST IN THE LUNGS. LONG TERM EXPOSURE TO QUARTZ OR CRISTOBALITE MAY RESULT IN THE DEVELOPMENT OF PULMONARY DISEASES INCLUDING PNEUMOCONIOSIS, SILICOSIS, AND LUNG CANCER. DUST CAN CAUSE INFLAMMATION OF THE LINING TISSUE OF THE NOSE AND INFLAMMATION OF THE EYES.

Medical Conditions Generally Aggravated by Exposure: RESPIRATORY (LUNG) DISORDERS OR DISEASES MAY BE AGGRAVATED BY EXPOSURE TO ANY DUST INCLUDING DIAMOND PRO.

Chemical/Component Listed as Carcinogen: QUARTZ AND CRISTOBALITE

NTP: YES

IARC: YES

OSHA: NO

Other Exposure Limits

NONE

Emergency & First Aide Procedures for Indicated Routes of Entry:

INHALATION: REMOVE FROM EXPOSURE. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CONSULT A PHYSICIAN. EYES: WASH EYES WITH RUNNING WATER. DO NOT RUB. IF IRRITATION PERSISTS, OBTAIN MEDICAL ASSISTANCE.

SECTION 6 - REACTIVITY DATA

Stability Conditions to Avoid
STABLE DOES NOT APPLY

Incompatibility (Materials to Avoid)
NONE DETERMINED

Hazardous Decomposition or Combustion Products
NONE DETERMINED

Hazardous Polymerization
WILL NOT OCCUR

SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Leaked or Spilled
CLEAN-UP OF SPILL MAY REQUIRE PERSONAL PROTECTIVE EQUIPMENT TO PREVENT DUST EXPOSURES. SEE SECTION 8.

Waste Disposal Method
IF THIS MATERIAL, AS PROVIDED BY THE MANUFACTURER, BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE AS DEFINED BY THE ENVIRONMENTAL PROTECTION AGENCY UNDER THE AUTHORITY OF THE RESOURCE CONSERVATION AND RECOVERY ACT (40 CFR 261). DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION 8 - PERSONAL PROTECTION INFORMATION

Respiratory Protection

NIOSH/MSHA APPROVED DUST MASK OR RESPIRATOR FOR PROTECTION AGAINST SILICA AND NUISANCE DUST.

Ventilation

GENERAL OR LOCAL EXHAUST, SUCH AS A FAN, TO MAINTAIN EXPOSURE BELOW TLV/PEL.

Protective Gloves

TO PROTECT AGAINST ABRASION.

Eye Protection

SAFETY GLASSES, GOGGLES, OR FACE SHIELD, WHEN NECESSARY TO PREVENT EYE CONTACT.

Other Protective Clothing or Equipment

NONE

SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

SHOULD BE STORED IN A MANNER TO PREVENT GENERATION OR ACCUMULATION OF DUST.

Other Precautions

NONE DETERMINED

The information contained within was obtained from authoritative sources and is believed to be accurate for the manner in which the product is intended to be used. Other uses could result in ramifications which are not included within this document.