

SAFETY DATA SHEET



Date Issued : 11/07/2012
MSDS No : 11-700
Date Revised : 11/07/2012
Revision No : 15

MIRACLE PF-701 Coil Liner Adhesive

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MIRACLE PF-701 Coil Liner Adhesive

MANUFACTURER

ITW TACC
 56 Air Station Industrial Park
 Rockland, MA 02370
Emergency Phone: (781) 878-7015
Service Number: (800) 503-6991

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation): (800) 424-9300

COMMENTS: MIRACLE is a registered trademark of Illinois Tool Works, Inc.

2. HAZARDS IDENTIFICATION

HAZARD DESIGNATION

"Xn" - Harmful

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: WARNING! Contains crystalline silica (quartz). Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans.

POTENTIAL HEALTH EFFECTS

EYES: Mildly irritating to the eyes.

SKIN: Not likely to be absorbed in toxic amounts. Prolonged exposure may cause skin irritation. Avoid skin contact as much as possible.

SKIN ABSORPTION: None Expected.

INGESTION: This material may be harmful or fatal if swallowed in large quantities. Small amounts are not expected to produce adverse health effects.

INHALATION: Materials are low in volatility and are not likely to pose a problem under normal operating conditions. Slight irritation to nose and throat with prolonged or repeated exposure.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Slight irritation.

SKIN: Slight skin irritation.

SKIN ABSORPTION: None Expected.

INGESTION: None known, not likely route of entry.

INHALATION: Materials are low in volatility therefore not likely to pose a problem.

CHRONIC EFFECTS: None Expected.

CARCINOGENICITY: IARC has concluded that "crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group I)".

IARC has also concluded that vinyl acetate is "possibly carcinogenic to humans (Group 2B)".

ROUTES OF ENTRY: Eye and skin contact. Inhalation and ingestion are unlikely routes of entry.

IRRITANCY: Slight eye and skin irritation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

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Chemical Name	Wt. %	CAS	EINECS	Classification
Silica, Crystalline	< 0.5	14808-60-7	238-878-4	Xn; R48/20, R40/20
Vinyl Acetate	< 0.5	108-05-4	203-545-4	F, Xn; R11, R20, R21, R22, R36, R45

(Full text of R-Phrases can be found under heading 16)

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of tempered water (at least 15-20 minutes) lifting upper and lower eye lids occasionally. Get immediate medical attention.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Small amounts are not expected to produce adverse health effects. Larger amounts should be recovered by aspiration. Get medical attention.

INHALATION: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Applicable

FLAMMABLE LIMITS: Not Applicable

AUTOIGNITION TEMPERATURE: Not Applicable

FLAMMABLE CLASS: Class IIIB

GENERAL HAZARD: Combustible Liquid.

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical or foam.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide, Carbon Dioxide

EXPLOSION HAZARDS: Decomposition products may cause a health hazard.

FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear. After water evaporates, remaining material will burn.

SENSITIVE TO STATIC DISCHARGE: Not Applicable

SENSITIVITY TO IMPACT: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Fumes, smoke, carbon monoxide and carbon dioxide may form when heated to decomposition.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on absorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal. Only those persons who are adequately trained, authorized, and wearing the appropriate personal protective equipment (PPE) should participate in spill response and clean-up.

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LARGE SPILL: Keep spectators away. Only those persons who are adequately trained, authorized and wearing the required personal protective equipment (PPE) should participate in spill response and clean-up. Know and prepare for spill response before using or handling this product. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered and labeled containers for disposal. Use appropriate PPE. Place absorbent diking materials in covered containers for disposal. Prevent contamination of sewers, streams, and groundwater with spilled material or used absorbent.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: For professional or industrial use only. Follow label instructions. Keep out of the reach of children. Not for consumption. No smoking. Do not breathe vapors. Avoid contact with body. Empty containers must not be washed and re-used for any purpose. Contact lens wearers must wear protective eye wear around chemical vapors and liquid. Wash hands thoroughly after handling. To prevent build-up of vapors, use adequate natural and/or mechanical ventilation (e.g. open all windows and doors to achieve cross ventilation).

HANDLING: Use with sufficient ventilation to keep employee exposure below recommended limits. Provide adequate ventilation for storage, handling and use, especially for enclosed or low spaces. Avoid contact of liquid with eyes and prolonged skin exposure. Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

STORAGE: Keep container closed when not in use. Store in a dry well ventilated area, out of the sun and away from ignition sources. Do not remove or deface label. Prevent water or moist air from entering container.

STORAGE TEMPERATURE: 15.5°C (60°F) Minimum to 35°C (95°F) Maximum

SHELF LIFE: 6 months from manufacture date

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Silica, Crystalline	TWA	NL	0.1 mg/m ³	NL	0.05 mg/m ³
	STEL	NL [1]	NL [1]	NL [1]	NL [1]
Vinyl Acetate	TWA	NL [1]	NL [1]	10 ppm	35 mg/m ³
	STEL	NL [1]	NL [1]	15 ppm	53 mg/m ³
Footnotes:					
1. NL = Not Listed					

ENGINEERING CONTROLS: Natural ventilation should be adequate under normal conditions.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields. A face shield may be necessary if spraying the product.

SKIN: Wear impervious gloves, if needed, to prevent repeated or prolonged skin contact.

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RESPIRATORY: No respiratory protection required under normal conditions.

WORK HYGIENIC PRACTICES: Wash hands thoroughly after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

COLOR: Black

pH: Not Determined

PERCENT VOLATILE: 40.0

Notes: by weight

VAPOR PRESSURE: Not Determined

VAPOR DENSITY: Not Determined

BOILING POINT: $\geq 100^{\circ}\text{C}$ (212°F)

FREEZING POINT: Not Determined

MELTING POINT: Not Determined

POUR POINT: Not Determined

FLASHPOINT AND METHOD: Not Applicable

SOLUBILITY IN WATER: Slight

EVAPORATION RATE: < 1.0 (n-Butyl Acetate=1)

DENSITY: 9.83 lbs/gal

PARTICLE SIZE: Not Determined

SPECIFIC GRAVITY: 1.179

VISCOSITY: Not Determined

MOLECULAR WEIGHT: Not Determined

(VOC): 0.700 gr/L EPA Method 24 VOC

Notes: Photochemically Reactive Only VOC: 0.3 gr/L

COEFF. OIL/WATER: Not Determined

ODOR THRESHOLD: Not Determined

OXIDIZING PROPERTIES: Not Determined

COMMENTS: 0.0005 lb VHAP/lb Solid
0.03% by weight HAP

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable.

POLYMERIZATION: Product will not undergo polymerization.

CONDITIONS TO AVOID: None known.

POSSIBILITY OF HAZARDOUS REACTIONS: None Expected.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide may form when heated to decomposition.

INCOMPATIBLE MATERIALS: Strong acids or alkaline materials.

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11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Silica, Crystalline	No data	No data	No data
Vinyl Acetate	2920 mg/kg	2335 mg/kg	2500 ppm (4-hr dose)

CARCINOGENICITY

Chemical Name	NTP Status	IARC Status
Silica, Crystalline	1	1
Vinyl Acetate		2B

IARC: IARC has concluded that "crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group I)".

IARC has also concluded that vinyl acetate is "possibly carcinogenic to humans (Group 2B)".

NTP: Respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, is classified as Known to be a Human Carcinogen.

IRRITATION: Slight eyes and skin irritation.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This product contains components that will normally float on water. These components may be harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment.

ECOTOXICOLOGICAL INFORMATION: Contains components that are potentially toxic to freshwater and saltwater ecosystems.

BIOACCUMULATION/ACCUMULATION: Contains components with the potential to bio-accumulate.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with all local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated

MARINE POLLUTANT #1: None

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** No **CHRONIC:** No

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EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt. %	CAS
Vinyl Acetate	< 0.5	108-05-4

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt. %	CERCLA RQ
Vinyl Acetate	< 0.5	5,000

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS	TSCA SECTION
Silica, Crystalline	14808-60-7	
Vinyl Acetate	108-05-4	12b,

CLEAN AIR ACT

Chemical Name	Wt. %	CAS
Vinyl Acetate	< 0.5	108-05-4

STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Silica, Crystalline	New Jersey Right to Know List Pennsylvania Right to Know List Massachusetts Toxic Use Reduction Act (TURA) Reportable Chemical
Vinyl Acetate	New Jersey Right to Know List Pennsylvania Right to Know List Massachusetts Toxic Use Reduction Act (TURA) Reportable Chemical

CALIFORNIA PROPOSITION 65

Chemical Name	Wt. %	Listed
Silica, Crystalline	< 0.5	Cancer

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION



Toxic

EUROPEAN COMMUNITY

EEC LABEL SYMBOL AND CLASSIFICATION



"Xn" - Harmful

16. OTHER INFORMATION

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RELEVANT R-PHRASES: R48/20: Harmful : danger of serious damage to health by prolonged exposure through inhalation.
 R40/20: Harmful : possible risk of irreversible effects through inhalation.
 R11: Highly flammable.
 R20: Harmful by inhalation.
 R21: Harmful in contact with skin.
 R22: Harmful if swallowed.
 R36: Irritating to eyes.
 R45: May cause cancer.

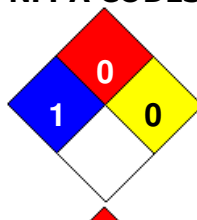
INFORMATION CONTACT: (781) 878-7015

REVISION SUMMARY: This MSDS replaces the 08/01/2012 MSDS. Revised: **Section 1: COMMENTS,** Date Issued.

HMIS RATING

HEALTH		1
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		B

NFPA CODES



GENERAL STATEMENTS: Keep out of reach of children

For professional or industrial use only

If you cannot read, or do not understand all directions, cautions, and warnings, do not use this product

For spray applications, use only with approved equipment

MANUFACTURER DISCLAIMER:

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