



Product Name: PT300 part A

Penntek Industrial Coatings, 21034 Heron Way, Suite 104, Lakeville, MN 55044
 24-hour Emergency Phone: 1-800-535-5053

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME: PENNTEK INDUSTRIAL COATINGS
ADDRESS: 21034 HERON WAY, SUITE 104
 LAKEVILLE, MN 55044
EMERGENCY PHONE: 1-800-535-5053
INFORMATION PHONE: 952-236-9305

HMIS CODES: H F R P
 2 3 1 H

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component/Exposure Limits	CAS#	% by Wt.
1,6-HEXAMETHYLENE DIISOCYANATE BASED POLYISOCYANATE ACGIH TWA .005 PPM	28182-81-2	65-75
n-BUTYL ACETATE 150 PPM TWA PEL OSHA 200 PPM STEL ACGIH	123-86-4	1-5%
ACETONE 750 PPM PEL OSHA 1000 PPM STEL OSHA	67-64-1	1-5%

3. HAZARDS IDENTIFICATION

Potential Health Effects

EYE:
 MAY CAUSE EYE IRRITATION. DIRECT CONTACT MAY CAUSE STINGING, TEARING AND REDNESS.

SKIN:
 WARNING AVOID ALL CONTACT WITH SKIN. PENETRATES SKIN READILY. ANY CONTACT MAY RESULT IN THE ABSORPTION OF POTENTIALLY HARMFUL AMOUNTS WHICH CAN CAUSE DAMAGE TO THE KIDNEYS, LIVER, BLOOD AND/OR BONE MARROW.

REPEATED OR PROLONGED SKIN CONTACT WITH THE SOLVENT CAN RESULT IN DRY, DEFATTED AND CRACKED SKIN CAUSING INCREASED SUSCEPTIBILITY TO INFECTION. IN ADDITION, IRRITATION (I.E. REDNESS AND SWELLING) THAT MAY DEVELOP INTO DERMATITIS CAN OCCUR FROM SKIN CONTACT. SOLVENTS CAN PENETRATE THE SKIN AND MAY CAUSE EFFECTS SIMILAR TO THOSE IDENTIFIED UNDER ACUTE INHALATION SYMPTOMS.

INGESTION:
 MODERATELY TOXIC. MAY CAUSE MOUTH, THROAT, ESOPHAGUS AND STOMACH IRRITATION, NAUSEA, VOMITING AND DIARRHEA. ASPIRATION OF MATERIAL INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

INHALATION:
 HIGH VAPOR/AEROSOL CONCENTRATIONS (GREATER THAN APPROXIMATELY 1000 PPM) ARE IRRITATING TO THE EYES AND THE RESPIRATORY TRACT, MAY CAUSE HEADACHES, DIZZINESS, ANESTHESIA, DROWSINESS, UNCONSCIOUSNESS, AND OTHER CENTRAL NERVOUS SYSTEM

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EFFECTS, INCLUDING DEATH.

CHRONIC EXPOSURE TO ORGANIC SOLVENTS HAS BEEN ASSOCIATED WITH VARIOUS NEUROTOXIC EFFECTS INCLUDING PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. SYMPTOMS INCLUDE LOSS OF MEMORY, LOSS OF INTELLECTUAL ABILITY AND LOSS OF COORDINATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

OVEREXPOSURE TO VAPOR, DUST OR MIST MAY AGGRAVATE EXISTING RESPIRATORY CONDITIONS, SUCH AS ASTHMA, BRONCHITIS, AND INFLAMMATORY OR FIBROTIC RESPIRATORY DISEASE.

CHRONIC (CANCER) INFORMATION:

INFORMATION NOT AVAILABLE

TERATOLOGY (BIRTH DEFECT) INFORMATION:

INFORMATION NOT AVAILABLE

REPRODUCTION INFORMATION:

INFORMATION NOT AVAILABLE

CARCINOGENICITY: NTP CARCINOGEN: NO

IARC MONOGRAPHS: NO

OSHA REGULATED: NO

4. FIRST AID MEASURES

EYES:

FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

SKIN:

WASH CONTAMINATED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION PERSISTS.

INGESTION:

IF SWALLOWED, GIVE 2 GLASSES OF WATER TO DRINK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEE A PHYSICIAN.

INHALATION:

RESCUERS SHOULD PUT ON APPROPRIATE PROTECTIVE GEAR. REMOVE FROM AREA OF EXPOSURE. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. KEEP VICTIM WARM. GET IMMEDIATE MEDICAL ATTENTION.

NOTE TO PHYSICIANS:

INFORMATION NOT AVAILABLE

5. FIRE FIGHTING MEASURES

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FLASH POINT: 0
INFORMATION NOT AVAILABLE

Method: TCC

FLAMMABLE LIMITS:
Lower flammable limit: 1.7
Upper flammable limit: 13.0

AUTOIGNITION TEMPERATURE:
INFORMATION NOT AVAILABLE

HAZARDOUS COMBUSTION PRODUCTS:
INFORMATION NOT AVAILABLE

EXTINGUISHING MEDIA:
FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG

FIREFIGHTING INSTRUCTIONS:
THE USE OF SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED FOR FIRE FIGHTERS. WATER SPRAY MAY BE USED FOR COOLING CONTAINERS TO PREVENT POSSIBLE PRESSURE BUILD-UP AND AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
VAPORS MAY CAUSE FLASH FIRE. KEEP CONTAINERS TIGHTLY CLOSED AND ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND FLAME. NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

REMOVE ALL SOURCES OF IGNITION (FLAMES, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS). AVOID BREATHING VAPORS. VENTILATE AREA. CONTAIN AND REMOVE WITH VERMICULITE OR OTHER INERT MATERIAL. PLACE IN A CONTAINER FOR CHEMICAL WASTE. IF LARGE SPILL, FLUSH SPILL AREA WITH WATER SPRAY AND PREVENT RUNOFF FROM ENTERING DRAINS, SEWERS, OR STREAMS.

LARGE SPILL:

IF LARGE SPILL, FLUSH SPILL AREA WITH WATER SPRAY AND PREVENT RUNOFF FROM ENTERING DRAINS, SEWERS, OR STREAMS.

7. HANDLING AND STORAGE

HANDLING:
REPORTS HAVE ASSOCIATED REPEATED OR PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

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DO NOT STORE ABOVE 120 DEG.F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED TO COMPLY WITH OSHA 1910.106. KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINERS CLOSED WHEN NOT IN USE AND UPRIGHT TO PREVENT LEAKAGE.

OTHER PRECAUTIONS:

AVOID CONTACT WITH SKIN OR EYES. WASH THOROUGHLY AFTER HANDLING.

HOT ORGANIC CHEMICAL VAPORS OR MISTS ARE SUSCEPTIBLE TO SUDDEN SPONTANEOUS COMBUSTION WHEN MIXED WITH AIR. IGNITION MAY OCCUR AT TEMPERATURES BELOW THOSE PUBLISHED IN THE LITERATURE AS "AUTOIGNITION" OR "IGNITION" TEMPERATURES. IGNITION TEMPERATURES DECREASE WITH INCREASING VAPOR VOLUME AND VAPOR/AIR CONTACT TIME, AND ARE INFLUENCED BY PRESSURE CHANGES.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

USE 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.

RESPIRATORY PROTECTION:

DO NOT BREATHE VAPORS. WHEN CONCENTRATIONS EXCEED THE ESTABLISHED EXPOSURE LIMITS, WEAR AN APPROPRIATE, PROPERLY FITTED RESPIRATOR (NIOSH/MSHA APPROVED) UNTIL VAPORS ARE EXHAUSTED. FOLLOW RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE. OBSERVE OSHA STANDARD 29CFR 1910.134.

VENTILATION:

PROVIDE GENERAL CLEAN AIR DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME AND PATTERN TO KEEP THE AIR CONTAMINANT CONCENTRATION BELOW THE LOWER EXPLOSION LIMIT AND BELOW CURRENT APPLICABLE EXPOSURE LIMITS. REFER TO OSHA STANDARD 1910.94.

SKIN PROTECTION:

USE SOLVENT IMPERMEABLE GLOVES TO AVOID CONTACT WITH PRODUCT.

EYE PROTECTION:

DO NOT GET IN EYES. USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS, CHEMICAL GOGGLES, FACE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

AVOID CONTACT WITH SKIN. USE PROTECTIVE CLOTHING. PREVENT CONTACT WITH CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING, INCLUDING SHOES, BEFORE REUSE.

WORK/HYGIENIC PRACTICES

WASH AT THE END OF EACH WORKSHIFT AND BEFORE EATING, SMOKING, OR USING THE TOILET. USE APPROPRIATE HAND AND SKIN LOTIONS TO PROTECT THE SKIN.

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BOILING POINT: 126.5F
MELTING POINT: INFORMATION NOT AVAILABLE
VAPOR PRESSURE: INFORMATION NOT AVAILABLE
VAPOR DENSITY: HEAVIER THAN AIR
SOLUBILITY IN WATER: INSOLUBLE
SPECIFIC GRAVITY: 1.02
EVAPORATION RATE: SLOWER THAN BUTYL ACETATE
pH: INFORMATION NOT AVAILABLE
ODOR: ORGANIC SOLVENT
APPEARANCE: INFORMATION NOT AVAILABLE

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID):
STABLE

INCOMPATIBILITY:
STRONG ACIDS AND STRONG OXIDIZING AGENTS.

CONDITIONS TO AVOID:
ELEVATED TEMPERATURES

SOURCES OF IGNITION

HAZARDOUS DECOMPOSITION PRODUCTS:
THERMAL DECOMPOSITION OR COMBUSTION CAN PRODUCE FUMES CONTAINING ORGANIC ACIDS, CARBON DIOXIDE AND CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

11. TOXICOLOGICAL INFORMATION

EYE:
INFORMATION NOT AVAILABLE

SKIN:
INFORMATION NOT AVAILABLE

INGESTION:
INFORMATION NOT AVAILABLE

INHALATION:
INFORMATION NOT AVAILABLE

SUBCHRONIC: INFORMATION NOT AVAILABLE

CHRONIC/CARCINOGENICITY: INFORMATION NOT AVAILABLE

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REPRODUCTION: INFORMATION NOT AVAILABLE

MUTAGENICITY: INFORMATION NOT AVAILABLE

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: INFORMATION NOT AVAILABLE

CHEMICAL FATE INFORMATION:

13. DISPOSAL CONSIDERATIONS

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS. INCINERATE IN APPROVED FACILITY.

14. TRANSPORT INFORMATION (Not meant to be all inclusive)

US DOT HAZARD CLASS: UN1993 FLAMMABLE LIQUID, n.o.s. (n-butyl acetate, acetone), 3, III

15. REGULATORY INFORMATION

(Not meant to be all inclusive - selected regulations represented)

U.S. FEDERAL REGULATIONS:

INFORMATION NOT AVAILABLE

OSHA:

THIS PRODUCT IS CONSIDERED HAZARDOUS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29CFR 1910.1200).

CERCLA: SARA HAZARD CATEGORY:

THIS MATERIAL IS REGULATED UNDER THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA) AND THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III SECTION 302. THIS MATERIAL IS OR CONTAINS CHEMICAL(S) LISTED IN 40 CFR TABLE 302.4 OR NONDESIGNATED RCRA ICR SUBSTANCE(S). (NONDESIGNATED ICR SUBSTANCES APPLY TO MATERIALS THAT WILL NOT BE REUSED.) RELEASE IN EXCESS OF ITS REPORTABLE QUANTITY MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER (1-800-424-8802) AND TO THE APPROPRIATE STATE AND LOCAL EMERGENCY RESPONSE ORGANIZATIONS.

SECTION 313:

THIS PRODUCT CONTAINS A CHEMICAL WHICH IS LISTED IN SECTION 313 AT OR ABOVE DE MINIMIS CONCENTRATIONS.

Component/Exposure Limits	CAS#	% by Wt.
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*** NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT ***

TOXIC SUBSTANCES CONTROL ACT: INFORMATION NOT AVAILABLE

Component/Exposure Limits	CAS#	% by Wt.
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INTERNATIONAL REGULATIONS:

CANADIAN WHMIS:
INFORMATION NOT AVAILABLE

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): INFORMATION NOT AVAILABLE

EINECS: INFORMATION NOT AVAILABLE

STATE REGULATIONS:

NEW JERSEY

THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT:

Component/Exposure Limits	CAS#	% by Wt.
n-BUTYL ACETATE	123-86-4	15.90
150 PPM TWA PEL OSHA		
200 PPM STEL ACGIH		

PENNSYLVANIA

THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%:

Component/Exposure Limits	CAS#	% by Wt.
n-BUTYL ACETATE	123-86-4	15.90
150 PPM TWA PEL OSHA		
200 PPM STEL ACGIH		

CALIFORNIA

THE CHEMICAL(S) NOTED BELOW AND CONTAINED IN THIS PRODUCT, ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER:

Component/Exposure Limits	CAS#	% by Wt.
*** NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT ***		

VOLATILE ORGANIC COMPOUNDS: 1.35 lb/gl

16. OTHER INFORMATION

MSDS Status: INFORMATION NOT AVAILABLE

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The following boilerplate keys do not have matching boilerplate key prefixes in the MSDS Master Format file:

EF01

NP02