

**MATERIAL SAFETY DATA SHEET****SECTION 1 - PRODUCT / COMPANY IDENTIFICATION**

PRODUCT NAME (AS USED ON LABEL AND LIST) PAC KLEAN AIR CONDITIONING CLEANER AND SANITIZER		Page 1 of 3
PRODUCT CODE PLN-D01	PRODUCT USAGE Air conditioning coil cleaner, remove dirt & oil, self-rinsing.	
COMPANY'S NAME PAC Corporation (Thailand) Co.,Ltd.	EMERGENCY TELEPHONE NUMBER (66) 2347 0447	
ADDRESS 262 Ramintra Rd., Tarang, Bangkhen, Bangkok. Thailand 10230	TELEPHONE NUMBER FOR INFORMATION (66) 2347 0447	
DATE PREPARED August 2020	SUPERSEDES -	

**SECTION 2 – HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW	CAUTION. Mild eye irritation.
PHYSICAL STATE	Liquid.
COLOR	Colorless.
ODOR	Mild Odor.
Eye Contact	Mild eye irritation.
Skin Contact	No adverse effects expected under typical use condition. Prolonged exposure to concentrate may cause dryness. Use gloves and apply skin moisturizer after washed. Use under recommended conditions.
Ingestion	May cause stomach or intestinal upset if swallowed (due to deterative properties).
Inhalation	No adverse effects expected under typical use condition. Adequate ventilation should be present when using PAC Klean Air Conditioning Cleaner and Sanitizer over a prolonged period of time. Open windows or other air-moving equipment if necessary.
Carcinogens	No ingredients are listed by FDA Thailand as known or suspected carcinogens
Medical Conditions	No medical conditions are known to be aggravated by PAC Klean Air Conditioning Cleaner and Sanitizer.

**SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Volume % ( W/W )	Property
- Alcohols, C16-18, ethoxylated	0.35	Cleaning Agent
- Dipropylene glycol methyl ether	0.10	Cleaning Agent
- Benzyl dimethyl hexdecyl ammonium chloride	0.04	Disinfectant
- Cetyl trimethyl ammonium chloride	0.04	Cleaning Agent

<b>MATERIAL SAFETY DATA SHEET</b>	
PRODUCT NAME (AS USED ON LABEL AND LIST) PAC KLEAN AIR CONDITIONING CLEANER AND SANITIZER	Page 2 of 3
<b>SECTION 4 – FIRST AID MEASURES</b>	
Eye Contact	Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention.
Skin Contact	Wash with plenty of running water and soap if available for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminate shoes before reuse.
Inhalation	Remove from area to fresh air. Get immediate medical attention. If not breathing, clear airway and start artificial respiration.
Ingestion	If swallowed, immediately drink 3-4 glasses of milk (if unavailable, drink water), do not induce vomiting. If vomiting does occur, give fluids again. Get immediate medical attention.
<b>SECTION 5 – FIRE FIGHTING MEASURES</b>	
Flash Point/Auto – Ignition	Not flammable
Extinguishing Media	Not flammable/non-explosive
Flammability Limits	Not flammable.
Special Fire Fighting Procedures	None required
<b>SECTION 6 – ACCIDENTAL RELEASE MEASURES</b>	
Personal Precaution	Avoid contact with eyes. Do not rub eyes with hands during clean-up. No special precautions for dermal contact are needed. Wash hands thoroughly after cleaning up spill or leak.
Procedure of follow in case of spill or leak	Evacuate from area. Identify source of leak or spill and contain with sand, earth, or containment bin. Then proceed to clean up spill or leak.
Method for cleaning up	Recover all reusable material. Cover remaining spill with inert absorbent material as non-hazardous waste. Rinse area with plenty of water and mop to sanitary sewer.
<b>SECTION 7 – HANDLING AND STORAGE</b>	
No special handling is required. Avoid contact with eyes. Wash hands thoroughly after handling. Keep in a closed plastic or stainless steel container. Store at ambient temperature. Avoid excessive heat.	
<b>SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION</b>	
Effects of Overexposure: No health effects information available for human exposure. Based on the available animal toxicity information for similar materials, it is anticipated that direct contact with this concentrate may possibly produce severe eye or skin irritation. Prolonged exposures may cause: headache, irritation of the eyes, nose and throat, drowsiness, lassitude, loss of appetite and inability to concentrate. Prolonged contact with concentrate may cause chemical burns with possible irreversible damage. Ingestion may cause burning pain in the mouth, throat and abdomen; swelling of the larynx; circulatory shock and/or convulsions. Mists or vapors of this concentrate may cause irritation of mucous membranes.	
Engineering Controls	In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices
Protective Gloves	Rubber or neoprene, to prevent skin contact with concentrate.
Eye Protection	When chemical splash goggles, there is potential for eye contact. Use safety glasses with side shields to ensure there is no potential for eyes contact.
Other Protective Equipment	Eye wash; safety shower; protective clothing (long sleeves, coveralls, or other, as appropriate), when needed to prevent skin contact.

<b>MATERIAL SAFETY DATA SHEET</b>	
PRODUCT NAME (AS USED ON LABEL AND LIST) PAC KLEAN AIR CONDITIONING CLEANER AND SANITIZER	Page 3 of 3
<b>SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES</b>	
APPEARANCE	Clear Liquid
ODOR	Mild Odor
SPECIFIC GRAVITY	1.025 ± 0.015
pH	11.5 – 12.5
Percent Volatile by Weight	92.8%
<b>SECTION 10 – STABILITY AND REACTIVITY</b>	
STABILITY	Stable
MATERIALS TO AVOID	None known
HAZARDOUS DECOMPOSITION PRODUCTS	None expected
<b>SECTION 11 – TOXICOLOGICAL INFORMATION</b>	
Eye Irritation	Moderate / Mild reversible eye irritation may occur based on relevant laboratory studies. This potential is reduced by immediate rinsing of eyes in case of eye contact.
Dermal Irritation	Mild, reversible skin irritation may occur based on relevant laboratory studies. A 6-hour exposure to human skin under a patch did not produce irritation.
Repeat Exposure Via Skin Contact	Based on relevant laboratory studies, no toxic effects are expected to be associated Via Skin Contact with daily skin exposures. Skin irritation may, however, occur with repeated or prolonged exposures.
<b>SECTION 12 – ECOLOGICAL INFORMATION</b>	
Hazard to wild animals& aquatic organisms: Low, based on toxicological profile. Biodegradability: Readily biodegradable based on biodegradation profile	
<b>SECTION 13 – DISPOSAL CONSIDERATION</b>	
Waste Disposal Methods	Dispose of in compliance with all Federal, state and local laws, and regulation. Incineration is the preferred method.
Container Disposal	Triple Rinse (or equivalent), then offer for recycling or reconditioning or puncture and dispose of in sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning, stay out of smoke.
<b>SECTION 14 – TRANSPORT INFORMATION</b>	
Not dangerous goods.	
<b>SECTION 15 – REGULATORY INFORMATION</b>	
All ingredients are listed on FDA Thailand.	
<b>SECTION 16 – OTHER INFORMATION</b>	
DISCLAIMER Not a hazardous waste.	
The information provided with this MSDS is furnished in good faith and without warranty of any kind. Personnel handling this material must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers. PAC Corporation (Thailand) Co.,Ltd. assume no additional liability or responsibility resulting from the use of, or reliance on this information.	

<b>MATERIAL SAFETY DATA SHEET</b>								
<b>SECTION 1 - PRODUCT / COMPANY IDENTIFICATION</b>								
PRODUCT NAME (AS USED ON LABEL AND LIST) PAC Klean Air Conditioning Condensate Cleaner Film					Page 1 of 3			
PRODUCT CODE PLN-F01		PRODUCT USAGE Air conditioner drain pan cleaning and disinfecting						
DISTRIBUTOR'S NAME PAC Corporation (Thailand) Co., Ltd.		EMERGENCY TELEPHONE NUMBER (66) 2347 0447						
ADDRESS 122 Vision Business Park phase 2 Soi Ramintra 55.8 Bangkheng Bangkok Thailand 10230		TELEPHONE NUMBER FOR INFORMATION (66) 2347 0447						
DATE PREPARED June 2016		SUPERSEDES October 2015						
<b>SECTION 2 - INGREDIENTS / IDENTITY INFORMATION</b>								
COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAMES)	CAS#	%W/W	OSHA PEL		ACGIH TWA		SARA TITLE III	RQ LBS
			PP M	MG/M 3	PP M	MG/M 3		
Coco benzyl dimethyl ammonium chloride	68424-85-1	205	Not established					
Inert Ingredients	Proprietary	795	Not established					
<b>SECTION 3 - HEALTH HAZARD IDENTIFICATION</b>								
INHALATION	None expected							
SKIN	None expected, however, prolong contact may cause irritation							
EYES	May cause eye irritation							
INGESTION	May cause gastric distress, vomiting and diarrhea							
<b>SECTION 4 - FIRST AID MEASURES</b>								
INHALATION	No specific treatment is necessary, since this material is not likely to be hazardous by inhalation.							
SKIN	Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention immediately.							
EYES	Flush eyes with water for 15 minutes; if irritation persists, seek medical attention immediately.							
INGESTION	Induce vomiting; seek medical attention immediately.							
<b>SECTION 5 - FIRE FIGHTING MEASURES</b>								
FLAMMABLE CLASS	Non flammable							
EXTINGUISHING MEDIA	Alcohol type foam, Carbon Dioxide, Water Fog							
HAZARDOUS COMBUSTION PRODUCTS	Oxides of carbon							
FIRE FIGHTING PROCEDURES & EQUIPMENT	This product is nonflammable; however hazardous decomposition products may be formed in a fire situation. Cool exposed containers with water spray. Respiratory and eye protection are required for firefighting personnel							
<b>SECTION 6 - ACCIDENTAL RELEASE MEASURES</b>								
GENERAL PROCEDURES	Gather products and dispose of as described in Section 13. Personnel should wear the necessary protective gear as describe in Section 8							
<b>SECTION 7 - HANDLING AND STORAGE</b>								
HANDLING PRECAUTIONS	No special handling is required. Keep out of reach of children							
STORAGE	Store in original packaging and shipping container. Do not open packaging if product is not to be used within 6 hours. Keep away from direct heat, sparks and other sources of ignition							
<b>SECTION 8 - PERSONAL PROTECTION</b>								
EYE/FACE PROTECTION	No special controls or personal protection required under condition of intended use							

<b>MATERIAL SAFETY DATA SHEET</b>					
PRODUCT NAME (AS USED ON LABEL AND LIST) PAC Klean Air Conditioning Condensate Cleaner Film					Page 2 of 3
RESPIRATORY PROTECTION		No special controls or personal protection required under condition of intended use			
SKIN PROTECTION		This product is safe for handling with bare hands. It is recommended to wash hands with soap and water immediately after handling			
<b>SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES</b>					
APPEARANCE		Blue rubbery film			
PHYSICAL STATE		Solid			
ODOR		None			
SOLUBILITY IN WATER		Slowly soluble			
MELTING POINT		90°C - 95°C			
BOILING POINT		N/A			
DECOMPOSITION TEMPERATURE		Not determined			
VAPOR DENSITY		N/A			
VAPOR PRESSURE		N/A			
SPECIFIC GRAVITY (WATER = 1)		1.8			
pH		7.0 - 7.8			
<b>SECTION 10 - STABILITY AND REACTIVITY</b>					
STABILITY		Stable under general conditions			
CONDITIONS TO AVOID		Extreme temperatures			
INCOMPATIBILITY		Strong oxidizers, Strong acids			
REACTIVITY		No additional hazardous chemicals are known to be formed when used as directed in this application			
<b>SECTION 11 - TOXICOLOGICAL INFORMATION</b>					
INGREDIENTS		CAS#		TOXICITY DATA*	
Coco benzyl Dimethylammonium chloride		68424-8-1		IRRITATION DATA*	
				Non sensitizing	
		Oral rat:		LD50: 200-2000mg/kg	
		Dermal rat:		LD50: 400-2000mg/kg	
*Data supplied by the distributor					
<b>SECTION 12 - ECOLOGICAL INFORMATION</b>					
No data available on the environmental impact of this product					
<b>SECTION 13 - DISPOSAL CONSIDERATIONS</b>					
All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility of the waste generators.					
<b>SECTION 14 - TRANSPORT INFORMATION</b>					
	US DOT	IATA	IMO	ID/ADR	CANADIAN DG
SHIPPING NAME	Not regulated	Not regulated	No information available	No information available	No information available
HAZARD CLASS	N/A	N/A			
UN NUMBER	N/A	N/A			
PACKAGE	N/A	N/A			
There are no unreasonable risks (health, safety, or property) that this product would pose when transported in commerce. Hazard class definitions (49 CFR, Part 173) are not applicable to this product.					
<b>SECTION 15 - OTHER REGULATORY INFORMATION</b>					
OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)					
This product is considered non-hazardous under the Occupational Safety & Health Administration Hazard Communication Standard					

<b>MATERIAL SAFETY DATA SHEET</b>	
PRODUCT NAME (AS USED ON LABEL AND LIST) A PAC Klean Air Conditioning Condensate Cleaner Film	Page 3 of 3
TOXIC SUBSTANCE CONTROL ACT (TSCA)	
All ingredients used in PAC Klean Air Conditioning Condensate Cleaner Film are listed on the TSCA Inventory	
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):	
Section 302 (Extreme Hazardous Substances):	No components listed
Section 311, 312 (Hazard Categories):	N/A
Section 313 (Toxic Chemicals):	No components listed
CALIFORNIA PROPOSITION 65:	
This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels that would require a warning under the statute.	
<b>SECTION 16 - OTHER INFORMATION</b>	
HMIS RATINGS	
HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 1 PERSONAL PROTECTION: None	
DISCLAIMER	
To the best of our knowledge, the information contained herein is accurate. However, PAC Corporation (Thailand) Co.,Ltd. do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. NO WARRANTY, EXPRESSED OR IMPLIED OF MERCHANTABILITY, FITNESS OR OTHERWISE IS MADE. In no event shall Advance Exchange Technology Co.,Ltd be liable for any special, incidental or consequential damage.	

<b>MATERIAL SAFETY DATA SHEET</b>								
<b>SECTION 1 - PRODUCT / COMPANY IDENTIFICATION</b>								
PRODUCT NAME (AS USED ON LABEL AND LIST) PAC Klean Air Conditioning Condensate Drain Pan Cleaner Tablet						Page 1 of 3		
PRODUCT CODE PLN-T01			PRODUCT USAGE Air conditioner drain pan cleaning and disinfecting					
DISTRIBUTOR'S NAME PAC Corporation (Thailand) Co.,Ltd.			EMERGENCY TELEPHONE NUMBER (66)2347 0447					
ADDRESS 122 Vision Business Park phase2 Soi Ramintra 55/8 Bangkhen BangkokThailand 10230			TELEPHONE NUMBER FOR INFORMATION (66)2347 0447					
DATE PREPARED June 2016			SUPERSEDES October 2015					
<b>SECTION 2 - INGREDIENTS / IDENTITY INFORMATION</b>								
COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAMES)	CAS#	%W/W	OSHA PEL		ACGIH TWA		SARA TITLE III	RQ LBS
			PP M	MG/M 3	PP M	MG/M 3		
Coco benzyl dimethyl ammonium chloride	68424-85-1	205	Not established					
Inert Ingredients	Proprietary	795	Not established					
<b>SECTION 3 - HEALTH HAZARD IDENTIFICATION</b>								
INHALATION	None expected							
SKIN	None expected, however, prolong contact may cause irritation							
EYES	May cause eye irritation							
INGESTION	May cause gastric distress, vomiting and diarrhea							
<b>SECTION 4 - FIRST AID MEASURES</b>								
INHALATION	No specific treatment is necessary, since this material is not likely to be hazardous by inhalation.							
SKIN	Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention immediately.							
EYES	Flush eyes with water for 15 minutes; if irritation persists, seek medical attention immediately.							
INGESTION	Induce vomiting; seek medical attention immediately.							
<b>SECTION 5 - FIRE FIGHTING MEASURES</b>								
FLAMMABLE CLASS	Non flammable							
EXTINGUISHING MEDIA	Alcohol type foam, Carbon Dioxide, Water Fog							
HAZARDOUS COMBUSTION PRODUCTS	Oxides of carbon							
FIRE FIGHTING PROCEDURES & EQUIPMENT	This product is nonflammable; however hazardous decomposition products may be formed in a fire situation. Cool exposed containers with water spray. Respiratory and eye protection are required for firefighting personnel							
<b>SECTION 6 - ACCIDENTAL RELEASE MEASURES</b>								
GENERAL PROCEDURES	Gather products and dispose of as described in Section 13. Personnel should wear the necessary protective gear as describe in Section 8							
<b>SECTION 7 - HANDLING AND STORAGE</b>								
HANDLING PRECAUTIONS	No special handling is required. Keep out of reach of children							
STORAGE	Store in original packaging and shipping container. Do not open packaging if product is not to be used within 6 hours. Keep away from direct heat, sparks and other sources of ignition							
<b>SECTION 8 - PERSONAL PROTECTION</b>								
EYE/FACE PROTECTION	No special controls or personal protection required under condition of intended use							

<b>MATERIAL SAFETY DATA SHEET</b>					
PRODUCT NAME (AS USED ON LABEL AND LIST) PAC Klean Air Conditioning Condensate Drain Pan Clean Tablet					Page 2 of 3
RESPIRATORY PROTECTION	No special controls or personal protection required under condition of intended use				
SKIN PROTECTION	This product is safe for handling with bare hands. It is recommended to wash hands with soap and water immediately after handling				
<b>SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES</b>					
APPEARANCE	Blue Rubbery Tablet				
PHYSICAL STATE	Solid				
ODOR	None				
SOLUBILITY IN WATER	Slowly soluble				
MELTING POINT	90°C - 95°C				
BOILING POINT	N/A				
DECOMPOSITION TEMPERATURE	Not determined				
VAPOR DENSITY	N/A				
VAPOR PRESSURE	N/A				
SPECIFIC GRAVITY (WATER = 1)	1.8				
pH	7.0 - 7.8				
<b>SECTION 10 - STABILITY AND REACTIVITY</b>					
STABILITY	Stable under general conditions				
CONDITIONS TO AVOID	Extreme temperatures				
INCOMPATIBILITY	Strong oxidizers, Strong acids				
REACTIVITY	No additional hazardous chemicals are known to be formed when used as directed in this application				
<b>SECTION 11 - TOXICOLOGICAL INFORMATION</b>					
INGREDIENTS	CAS#	TOXICITY DATA*		IRRITATION DATA*	
Coco benzyl Dimethylammonium chloride	68424-8-1	Oral rat:	LD50: 200-2000mg/kg	Non sensitizing	
		Dermal rat:	LD50: 400-2000mg/kg		
*Data supplied by the distributor					
<b>SECTION 12 - ECOLOGICAL INFORMATION</b>					
No data available on the environmental impact of this product					
<b>SECTION 13 - DISPOSAL CONSIDERATIONS</b>					
All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility of the waste generators.					
<b>SECTION 14 - TRANSPORT INFORMATION</b>					
	US DOT	IATA	IMO	ID/ADR	CANADIAN DG
SHIPPING NAME	Not regulated	Not regulated	No information available	No information available	No information available
HAZARD CLASS	N/A	N/A			
UN NUMBER	N/A	N/A			
PACKAGE	N/A	N/A			
There are no unreasonable risks (health, safety, or property) that this product would pose when transported in commerce. Hazard class definitions (49 CFR, Part 173) are not applicable to this product.					
<b>SECTION 15 - OTHER REGULATORY INFORMATION</b>					
OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)					
This product is considered non-hazardous under the Occupational Safety & Health Administration Hazard Communication Standard					



<b>MATERIAL SAFETY DATA SHEET</b>	
PRODUCT NAME (AS USED ON LABEL AND LIST) PAC Klean Air Conditioning Condensate Drain Pan Clean Tablet	Page 3 of 3
TOXIC SUBSTANCE CONTROL ACT (TSCA)	
All ingredients used in PAC Klean Air Conditioning Condensate Drain Pan Clean Tablet are listed on the TSCA Inventory	
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):	
Section 302 (Extreme Hazardous Substances):	No components listed
Section 311, 312 (Hazard Categories):	N/A
Section 313 (Toxic Chemicals):	No components listed
CALIFORNIA PROPOSITION 65:	
This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels that would require a warning under the statute.	
<b>SECTION 16 - OTHER INFORMATION</b>	
HMIS RATINGS	
HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 1 PERSONAL PROTECTION: None	
DISCLAIMER	
To the best of our knowledge, the information contained herein is accurate. However, PAC Corporation (Thailand) Co.,Ltd do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. NO WARRANTY, EXPRESSED OR IMPLIED OF MERCHANTABILITY, FITNESS OR OTHERWISE IS MADE. In no event shall Advance Exchange Technology Co.,Ltd. be liable for any special, incidental or consequential damage.	