

# SAFETY DATA SHEET

Issuing Date 29-Aug-2013

Revision Date 28-Jul-2021

Revision Number 6

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product Identifier

Product Name **PAN-CLEAN**

### Other means of identification

Product Code PAN-CLEAN  
CAS Number Mixture  
Formula Not available  
Synonyms ANTI-CLOG FT/C CDC

### Recommended use of the chemical and restrictions on use

**Recommended Use** To control the growth of slime forming bacteria which is the major cause of drain blockages.  
**Uses advised against** Do not use where contact with food or drinking water is possible. Avoid prolonged contact with eyes, skin, and clothing.

### Details of the supplier of the safety data sheet

**Supplier Address** Gur Thermal Systems Cleaning Technologies Ltd.  
7 Haganim Street 47231  
Ramat-Hasharon, Israel

### Emergency Telephone Number(s)

ChemTrec: 1-800-424-9300 Outside of the United States: 1-703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Skin Corrosion/Irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Chronic aquatic toxicity	Category 2

### Label elements

#### Emergency Overview

#### Signal Word

**DANGER**

#### Hazard statements

Harmful if swallowed  
Harmful in contact with skin  
Harmful if inhaled  
Causes severe skin burns and eye damage  
Toxic to aquatic life with long lasting effects



**Appearance**

Light brown contents packaged in a plastic container

**Physical State**

Solid

**Odor**

Soapy

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Use only outdoors or in a well-ventilated area  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

Specific treatment (see supplemental first aid instructions on this label)  
 Immediately call a POISON CENTER or doctor/physician  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present .  
 Immediately call a POISON CENTER or doctor/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a POISON CENTER or doctor/physician  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Rinse mouth  
 Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

None known

**Other Information**

75 % of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Synonyms** ANTI-CLOG FT/C CDC

**Formula** Not available

Chemical name	CAS No.	Weight-%	North American Hazard Indicator
Ethanol	64-17-5	5	1 1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA 1000 ppm STEL
Alkyl(60%C14,30%C16,5%C12,5%C18)Dimethyl	68391-01-5	20	True

Benzyl Ammonium Chloride			
Alkyl(68%C12, 32%C14)Dimethyl Ethylbenzyl Ammonium Chloride	68956-79-6	20	True
Other Ingredients	N/A	55	False

**4. FIRST AID MEASURES**

**First Aid Measures**

**General Advice** Show this safety data sheet to the doctor in attendance.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician or poison control center immediately.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. Call a physician or poison control center immediately.

**Inhalation** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or poison control center immediately.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

**Self-Protection of the First Aider** Use personal protective equipment as required. Avoid contact with eyes, skin and clothing.

**Most important symptoms and effects, both acute and delayed**

**Signs and Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media** Water spray. Carbon dioxide (CO2). Dry chemical. Alcohol-resistant foam.

**Unsuitable Extinguishing Media** No information available.

**Hazardous Combustion Products** Thermal decomposition or combustion may produce hazardous gases and/or materials.

**Explosion Data** Not available

**Sensitivity to mechanical impact** Not available.  
**Sensitivity to static discharge** Not available.

**Specific Hazards Arising from the Chemical**  
 Keep product and empty container away from heat and sources of ignition.

**Protective Equipment and Precautions for Firefighters**  
 As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental Precautions** Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Should not be released into the environment. Refer to approved EPA Label. Approved only for use in drain pans of air conditioning systems and refrigeration systems.

**Methods and material for containment and cleaning up**

**Methods for Clean-up** Evacuate personnel to safe areas. Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling** Ensure adequate ventilation. Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Do not breathe vapours/dust. Avoid contact with eyes, skin and clothing. Avoid repeated exposure.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep container tightly closed in a dry and well-ventilated place. Keep at temperatures between 10 and 48.88°C. Keep in properly labeled containers. Keep out of the reach of children.

**Incompatible Materials** Strong Oxidizing Agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Alkyl(60%C14,30%C16,5%C12,5%C18)Dimethyl Benzyl Ammonium Chloride 68391-01-5	-	-	-
Alkyl(68%C12, 32%C14)Dimethyl Ethylbenzyl Ammonium Chloride 68956-79-6	-	-	-
Other Ingredients N/A	-	-	-

**Appropriate engineering controls**

**Individual protection measures, such as personal protective equipment**

- Eye/Face Protection** Tight sealing safety goggles. Face shield.
- Skin and body protection** Wear protective gloves and protective clothing. Chemical resistant apron.
- Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

**Appearance** Light brown contents packaged in a plastic container  
**Physical State** Solid  
**Odor** Soapy  
**Odor Threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No Data Available	
Melting point / Freezing point	76.67 - 82.22 °C / 170 - 180 °F	Literary Reference
Boiling point / boiling range	No information available	
Flash Point	No Data Available	No information available
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air	No information available	
Upper flammability limit	No information available	
Lower flammability limit	Not available	
Vapor Pressure	No information available	
Vapor Density	Not available	
Specific Gravity	0.965 - 0.985	
Water Solubility	73 - 85%	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	Not available	
Autoignition temperature °C	No Data Available	Estimated
Decomposition temperature	No Data Available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	Not available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

**Other Information**

**Softening Point** No information available  
**Molecular Weight** No information available  
**VOC content** No information available  
**Liquid Density** No information available  
**Bulk density** No information available  
**Corrosion characteristics** No information available

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	Not applicable.
<b>Chemical Stability</b>	Stable under recommended storage conditions
<b>Conditions to Avoid</b>	Heat, flames and sparks.
<b>Incompatible Materials</b>	Strong Oxidizing Agents.
<b>Hazardous Decomposition Products</b>	Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen chloride gas.
<b>Possibility of Hazardous Reactions</b>	None under normal processing

**11. TOXICOLOGICAL INFORMATION**

**Product Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol	7060 mg/kg ( Rat )	-	124.7 mg/L ( Rat ) 4 h
Alkyl(60%C14,30%C16,5%C12,5%C18)Dimethyl Benzyl Ammonium Chloride	= 240 mg/kg ( Rat )	-	-
Alkyl(68%C12,32%C14)Dimethyl Ethylbenzyl Ammonium Chloride	-	-	-
Other Ingredients	20000 mg/kg (Rat)	20800 mg/kg (rabbit)	-

**The following values are calculated based on chapter 3.1 of the GHS document**

**Information on likely routes of exposure**

<b>Eyes</b>	Severe eye irritation. Causes serious eye damage and possible burns to eyes. May cause irreversible eye damage. Avoid contact with eyes.
<b>Skin</b>	May be fatal if absorbed through skin. Contact causes severe skin irritation and possible burns. Avoid contact with skin.
<b>Inhalation</b>	May be fatal if inhaled. May cause irritation of the mucous membranes. May cause irritation of respiratory tract. Avoid breathing dust.
<b>Ingestion</b>	May be fatal if swallowed. Nausea. Diarrhea. Do not take internally.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Chemical name	ACGIH	IARC	NTP	OSHA
Alkyl(60%C14,30%C16,5%C12,5%C18)Dimethyl Benzyl Ammonium Chloride 68391-01-5	-	-	-	-
Alkyl(68%C12,32%C14)Dimethyl Ethylbenzyl Ammonium Chloride 68956-79-6	-	-	-	-
Other Ingredients N/A	-	-	-	-

<b>Serious eye damage/irritation</b>	No information available.
<b>Skin Corrosion/Irritation</b>	No information available.
<b>Sensitization</b>	No information available.
<b>Reproductive Effects</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Developmental Effects</b>	California Proposition 65 - Developmental Toxicity. [Ethyl alcohol in alcoholic beverages].
<b>Teratogenic Effects</b>	May cause harm to the unborn child. [Ethanol, Cas# 64-17-5 by the state of

Massachusetts].

**STOT - single exposure** No information available.

**STOT - Repeated Exposure** No information available.

**Chronic Toxicity** Avoid repeated exposure. Possibly Carcinogenic. [Ethanol]. California Proposition 65 Developmental Toxicity. May cause harm to the unborn child.

**Aspiration Hazard** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Toxic to aquatic life with long lasting effects  
 Toxic to aquatic life with long lasting effects Avoid release to the environment

75 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethanol 64-17-5	-	11,000 mg/L LC50 96h	-	-
Alkyl(60%C14,30%C16,5%C12,5%C18)Dimethyl Benzyl Ammonium Chloride 68391-01-5	-	0.223 - 0.46: 96 h Lepomis macrochirus mg/L LC50 static 0.823 - 1.61: 96 h Oncorhynchus mykiss mg/L LC50 static 1.3: 96 h Poecilia reticulata mg/L LC50 semi-static 2.4: 96 h Oryzias latipes mg/L LC50 semi-static	-	-
Alkyl(68%C12, 32%C14)Dimethyl Ethylbenzyl Ammonium Chloride 68956-79-6	-	-	-	-
Other Ingredients N/A	-	-	-	-

**Persistence/Degradability** No information available.

**Bioaccumulation/Accumulation** No information available.

**Mobility in Soil** No information available.

Chemical name	log Pow =
Ethanol 64-17-5	-0.32
Alkyl(60%C14,30%C16,5%C12,5%C18)Dimethyl Benzyl Ammonium Chloride 68391-01-5	-
Alkyl(68%C12, 32%C14)Dimethyl Ethylbenzyl Ammonium Chloride 68956-79-6	-
Other Ingredients N/A	-

**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal Methods** Contact waste disposal services. Dispose of in accordance with local regulations.

**Contaminated Packaging** Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**TDG** Not regulated

**MEX** Not regulated

**ICAO** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**RID** Not regulated

**ADR** Not regulated

**ADN** Not regulated

**15. REGULATORY INFORMATION**

International Inventories

**TSCA** Does not comply

**Canada (DSL)** Does not comply

**EU (EINECS)** Does not comply

**EU (ELINCS)** Does not comply

**Japan (ENCS)** Does not comply

**China (IECSC)** Does not comply

**Korea (KECL)** Does not comply

**Philippines (PICCS)** Does not comply

**Australia (AICS)** Does not comply

**Mexico INV** Does not comply

**Taiwan INV** Does not comply

Chemical name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)	
Ethanol	Present	Present	X	-	
Alkyl(60%C14,30%C16,5%C12,5%C18)Dimethyl Benzyl Ammonium Chloride	Present	Present	X	-	
Alkyl(68%C12, 32%C14)Dimethyl Ethylbenzyl Ammonium Chloride	Present	Present	X	-	
Other Ingredients	-	-	-	-	
Component	Japan (ENCS)	China (IECSC)	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
-	Present (2)-202	Present	Present	Present	Present
-	Present (3)-2694	Present	Present	Present	Present
-	-	Present	Present	Present	Present
-	-	-	-	-	-
Chemical name	Mexico INV		Taiwan INV		
Ethanol 64-17-5	Present		Present		



Alkyl(60%C14,30%C16,5%C12,5%C18)Dimethyl Benzyl Ammonium Chloride 68391-01-5	Present	Present
Alkyl(68%C12, 32%C14)Dimethyl Ethylbenzyl Ammonium Chloride 68956-79-6	-	Present
Other Ingredients N/A	-	-

Federal Regulations

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

**VOC content**

This Product does not contain any VOCs

Chemical name	CAS No.	VOCs
Ethanol	64-17-5	Present

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ethanol 64-17-5	-	-	-	-
Alkyl(60%C14,30%C16,5%C12,5%C18)Dimethyl Benzyl Ammonium Chloride 68391-01-5	-	-	-	-
Alkyl(68%C12, 32%C14)Dimethyl Ethylbenzyl Ammonium Chloride 68956-79-6	-	-	-	-
Other Ingredients N/A	-	-	-	-

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	CERCLA/SARA Hazardous Substances	CERCLA/SARA RQ	RQ
Ethanol 64-17-5	-	-	-
Alkyl(60%C14,30%C16,5%C12,5%C18)Dimethyl Benzyl Ammonium Chloride 68391-01-5	-	-	-
Alkyl(68%C12,32%C14)Dimethyl Ethylbenzyl Ammonium Chloride 68956-79-6	-	-	-
Other Ingredients N/A	-	-	-

State Regulations

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical name	CAS No.	California Proposition 65	Type
Ethanol	64-17-5	Carcinogen Developmental	carcinogen, initial date 4/29/11 (in alcoholic beverages) carcinogen, initial date 7/1/88 (when associated with alcohol abuse)

**State Right-to-Know**

This product contains the following State Right-to-Know chemicals:

Chemical name	New Jersey	Massachusetts	Illinois	Rhode Island	Pennsylvania
Ethanol 64-17-5	sn 0844	Teratogen	Present	Toxic; Flammable	Present
Alkyl(60%C14,30%C16,5%C12,5%C18)Dimethyl Benzyl Ammonium Chloride 68391-01-5	-	-	-	-	-
Alkyl(68%C12,32%C14)Dimethyl Ethylbenzyl Ammonium Chloride 68956-79-6	-	-	-	-	-
Other Ingredients N/A	-	-	-	-	-

**U.S. EPA Label Information**

EPA Pesticide Registration Number 33427-4

---

Canada

**WHMIS Statement**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

**16. OTHER INFORMATION****NFPA****Health** 2**Flammability** 0**Instability** 0**Physical Hazard** 0**Issuing Date**

29-Aug-2013

**Revision Date**

28-Jul-2021

Not available

**Disclaimer**

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.

**End of Safety Data Sheet**