



Safety Data Sheet

Section 1 Identification of the Substance and of the Supplier

1.1 Product Identifier

Product Name/Identification:	TPH A 939A
Synonyms:	Polymer
Product Code:	Not applicable
Formula:	$(C_8H_{16}NCl)_n$. Proprietary organic liquid containing polydiallyldimethyl ammonium chloride, a homopolymer of diallyldimethylammonium chloride.

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advises Against

Relevant Identified Uses:	Flocculation and sludge dewatering
Uses Advised Against:	None known

1.3 Details of the Supplier of the SDS

Manufacturer/Supplier:	Tons Per Hour, Inc.
Street Address:	8717 Humble Westfield Rd.
City, State and Zip Code:	Humble, TX 77338
Customer Service Telephone:	916-663-3800

1.4 Emergency Telephone Number

Emergency Phone Number:	916-663-3800
Hours Available:	24/7

Section 2 Hazards Identification

2.1 Classification of the Substance

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. While this material has a low level of toxicity, good industrial hygiene practices are encouraged to minimize exposure.

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Section 3
Composition/Information on Ingredients

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200. While this material has a low level of toxicity, good industrial hygiene practices are encouraged to minimize exposure.

Section 4
First Aid Measures

4.1 Description of First Aid Measures

Inhalation:	If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.
Skin Contact:	First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
Eye Contact:	If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.
Ingestion:	Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

4.2 Indication of Any Immediate Medical Attention and Special Treatment Needed

Seek first aid or call a doctor or Poison Control Center if contact with eyes occurs and irritation remains after rinsing.

Section 5
Firefighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media:	Dry chemical, carbon dioxide (CO ₂), water spray
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5.2 Special Hazards Arising From the Substance or Mixture

Hazardous Combustion Products:	None known.
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5.3 Advice for Firefighters

Special Protective Equipment and Precautions for Firefighters:	Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.
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Section 6 Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions/Protective Equipment:	For personal protection see Section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Emergency procedures:	Use scooping, water spraying/flushing/misting or ventilated vacuum cleaning systems to clean up spills. Do not use pressurized air.

6.2 Environmental precautions

Environmental precautions:	Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
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6.3 Methods and Material for Containment and Cleaning Up

Methods and materials for containment and cleaning up:	Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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See Sections 8 and 13 for additional information on exposure controls and disposal.

Section 7 Handling and Storage

7.1 Precautions for Safe Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, ventilated area. Keep from freezing.



Section 8
Exposure Controls/Personal Protection

8.1 Control Parameters

Contains no substances with occupational exposure limit values. These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

8.2 Exposure Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

8.2.1 Engineering Controls

Provide ventilation to maintain the ambient workplace atmosphere below the occupational exposure limit(s). Use general and local exhaust ventilation and dust collection systems as necessary to minimize exposure.

8.2.2 Personal Protective Equipment (PPE)

Respiratory protection:	A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.
Eye and face protection:	Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.
Hand and skin protection:	Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use. Wear resistant gloves (consult your safety equipment supplier).

Section 9
Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Property: Value	Property: Value
Appearance (physical state, color, etc.): Liquid	Upper/lower flammability or explosive limits: Not applicable
Odor: Characteristic	Vapor Pressure (Pa): Not determined
Odor threshold: Not applicable	Vapor Density: Not determined
pH (25 °C): 6.0	Specific gravity or relative density: Not determined
Melting point/freezing point (°C): Not applicable	Water Solubility: Soluble
Initial boiling point and boiling range (°C): (>)212 °F / 100 °C	Partition coefficient: n-octane/water: Not determined
Flash point (°C): Not applicable	Auto ignition temperature (°C): Not applicable
Evaporation rate: Not determined	Decomposition temperature (°C): Not determined
Flammability (solid, gas): Not combustible	Viscosity: (ca.)2,250 mPa.s @ 20 °C

Commented [A1]:

Do not delete any rows or individual properties. If data is not available insert – Not Determined or Not Applicable.

Commented [A2]: If urea or ammonia are injected into the flue gas as a pollution control agent, include a notation next to the odor value and the footnote provided.

If urea or ammonia are not used, delete the footnote.

9.2 Other Information

Section 10
Stability and Reactivity

10.1 Reactivity:	The material is an inert, inorganic material primarily composed of elemental oxides.
10.2 Chemical stability:	The material is stable under normal use conditions.
10.3 Possibility of hazardous reactions:	Product will not undergo hazardous polymerization
10.4 Conditions to avoid:	Excessive heat, protect from frost, exposure to moisture.
10.5 Incompatible materials:	Aluminum, copper, iron, strong mineral acids, strong oxidizing agents
10.6 Hazardous decomposition products:	Carbon dioxide and carbon monoxide, hydrogen chloride, nitrogen oxides (NOx), Ammonia

Commented [A3]: If available, list other properties that might be applicable to evaluate the hazards of the CCP. One such example would be particle size determination. If none are available, delete this section.

Section 11
Toxicological Information

11.1 Information on Toxicological Effects

Endpoint	Data
Acute oral toxicity	LD 50: > 2,000 mg/kg Species: Rat
Acute dermal toxicity	No data available
Acute inhalation toxicity	No data available
Skin corrosion/irritation	No data available
Eye damage/irritation	No data available
Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-SE	No data available
STOT-RE	No data available

Section 12
Ecological Information

12.1 Toxicity

Fish	LC 50: >10 mg/l Exposure time: 96 h Species: Danio rerio (zebra fish)
Daphnia and other aquatic organisms	EC 50: >10 mg/l Exposure time: 48 h Species: Water flea (Daphnia magna) Method: OECD Test Guideline 202

12.2 Persistence and Degradability

Not relevant for inorganic materials.



12.3 Bioaccumulative Potential

No data available.

12.4 Mobility in Soil

No data available.

12.5 Results of PBT and vPvB Assessment

No data available.

12.6 Other Adverse Effects

None known.

**Section 13
Disposal Considerations**

Dispose of in accordance with all applicable local, state and federal regulations.

**Section 14
Transport Information**

Regulatory entity: U.S. DOT	Shipping Name:	Not Regulated
	Hazard Class:	Not Regulated
	ID Number:	Not Regulated
	Packing Group:	Not Regulated

**Section 15
Regulatory Information**

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Mixture

o **California Proposition 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

o **SARA Harzard Classification**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

o **US Toxic Substances Control Act & Other Listings**



Country & Registration	Listing
US. Toxic Substances Control Act	Y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	Y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	Y (positive listing)
Japan. Kashin-Hou Law List	Y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	Y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	Y (positive listing)
China. Inventory of Existing Chemical Substances	Y (positive listing)

Section 16

Other Information, Including Date of Preparation or Last Revision

16.1 Indication of Changes

Date of preparation or last revision: May 26, 2015

16.2 Abbreviations and Acronyms

- ACGIH: American Conference of Industrial Hygienists
- ANSI: American National Standards Institute
- CA: California
- CAA: Clean Air Act
- CAS: Chemical Abstract Services
- CCP: Coal Combustion Product
- CFB: Circulating Fluidized Bed
- CFR: Code of Federal Regulations
- CWA: Clean Water Act
- EPA: Environmental Protection Agency
- GHS: Globally Harmonized System of Classification and Labelling
- HMIS: Hazardous Materials Identification System
- IARC: International Agency for Research on Cancer
- LC50: Concentration resulting in the mortality of 50 % of an animal population
- LD50: Dose resulting in the mortality of 50 % of an animal population
- LEL: Lower explosive limit



- MA: Massachusetts
- NA: Not Applicable
- NJ: New Jersey
- NOEC: No observed effect concentration
- NIOSH: National Institute of Occupational Safety and Health
- NOx: Nitrogen oxides
- NTP: US National Toxicology Program
- OEL: Occupational Exposure Limit
- OSHA: Occupational Safety and Health Administration
- PA: Pennsylvania
- Pa: Paschal
- PBT: Persistent, Toxic and Bioaccumulative
- PEL: Permissible exposure limit
- PPE: Personal Protective Equipment
- REL: Recommended exposure limit
- RI: Rhode Island
- RCS: Respirable Crystalline Silica
- RTK: Right-to-Know
- SARA: Superfund Amendments and Reauthorization Act
- SCBA: Self-contained breathing apparatus
- SDS: Safety Data Sheet
- STEL: Short-term exposure limit
- STOT-RE: Specific target organ toxicity-repeated exposure
- STOT-SE: Specific target organ toxicity-single exposure
- TLV: Threshold limit value
- TSCA: Toxic Substances Control Act
- TWA: Time-weighted average
- UEL: Upper explosive limit
- UVCB: Unknown or Variable Composition/Biological
- U.S.: United States
- U.S. DOT: United States of Department of Transportation
- vPvB: Very Persistent and Very Bioaccumulative

DISCLAIMER:

This SDS has been prepared in accordance with the Hazard Communication Rule 29 CFR 1910.1200. Information herein is based on data considered to be accurate as of date prepared. No warranty or representation, express or implied, is made as to the accuracy or completeness of this data and safety information. No responsibility can be assumed for any damage or injury resulting from abnormal use, failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.